JMAZ® PROFESSIONAL



Electro T5 / T5 4PK

User Manual

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DOCUMENT VERSION

This document may be updated online to include new product features or enhancements. For the most recent version of this manual, please visit www.jmazprofessional.com before starting installation or programming.

Date	Document Version	DMX Channels	Notes
01/01/2025	1.0	CCT-4CH; HSI-4CH; CCT/HIS-6CH; 16-Bit-13CH; RGBCW+S-7CH; Macro-12CH; Pix8-40CH; Pix16-80CH; Pix32-160CH	Initial Release

Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)
Conserving electrical energy is crucial for environmental protection. Please turn off all electrical products when they are not in use. To prevent power consumption in idle mode, disconnect all electrical equipment from the power source when not in use. Thank you!

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Retain This Manual for Future Reference

Introduction

Unpacking: Thank you for purchasing the Electro T5 by JMAZ Professional. Every device has been thoroughly tested and shipped in perfect operating condition. Please carefully inspect the shipping carton for any damage that may have occurred during transit. If the carton appears damaged, inspect the fixture for any signs of damage and ensure all necessary accessories are intact. If any damage is found or parts are missing, contact our toll-free customer support number for further instructions. Do not return the unit to your dealer without first contacting customer support.

JMAZ Professional - Electro T5, a revolutionary battery-powered outdoor tube lighting solution designed to bring vibrant color and dynamic lighting effects to any event or environment. With its cutting-edge features and robust design, the Electro T5 sets a new standard for versatility, performance, and reliability in outdoor lighting applications.

This product is intended for use by professionally trained personnel only and is not suitable for private use.

Customer Support

For any product-related service and support needs, please contact JMAZ Customer Service. Visit www.jmazprofessional.com for questions, comments, or suggestions.

JMAZ GROUP, INC

Monday - Friday, 8:30 am to 5:00 pm PST

Phone: 626-380-0883 | Fax: 626-866-8868

Email: support@jmazlighting.com

Address: 2422 Lee Ave, South El Monte, CA 91733

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

Lighted lamp is HOT!

WARNING – To reduce the risk of FIRE OR INJURY

CAUTION – Use indoors only.

CAUTION – Risk of Electric Shock

CAUTION –Hot surface. Keep away from curtains and other combustible materials.

Turn off the power and allow to cool before replacing lamp.

The lamp gets HOT quickly! Contact only switch/plug when turning on.

Do not touch hot lens, guard, or enclosure

Keep lamp away from materials that may burn.

Do not touch the lamp at any time. Use a soft cloth. Oil from the skin may damage the lamp.

Do not operate the luminaire with a missing or damaged shield.

Do not use if there is any damage to the light or cord insulation. Inspect periodically.

CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR

This portable luminaire has a polarized plug (one blade is wider than the other) as a feature to reduce the risk of electric shock. This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician. Never use with an extension cord unless plug can be fully inserted. Do not alter the plug.

SAVE THESE INSTRUCTIONS

CAUTION! Do NOT expose the fixture or front lens opening to direct sunlight, other lighting, moving head fixtures, or lasers during unpacking, installation, use, or extended idle periods outdoors. Additionally, do not focus a light beam from one fixture directly at another.

CAUTION! To avoid the risk of shock or fire, do NOT expose this unit to rain or moisture.

CAUTION! There are no user-serviceable parts inside this unit. Attempting repairs yourself will void the manufacturer's warranty. If your unit requires service, please contact Jmaz Group, INC.

CAUTION! Do not discard the shipping carton in the trash; please recycle whenever possible.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

A. Lighting Products (Non-LED): 1 Year Limited Warranty (ex: Special Effect Lighting, Intelligent Lighting, UV Lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands, etc.)
B. Lighting Products (LED and Lamp): 3 Year Limited Warranty (ex: LED Moving Heads, OSRAM Bulb Moving Heads, Laser Products.)
C. Batteries: 6 Months Limited Warranty (ex: Lithium-Ion Batteries)
D. Non-LED Bulbs: 6 Months or 2,000 hours of Run time (whichever comes first.) (ex: OSRAM bulbs)

MANUFACTURER'S LIMITED WARRANTY

A. JMAZ Group, Inc., hereby warrants, to the original purchaser, JMAZ products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase. 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 out.
B. For warranty service, you must obtain a Return Merchandise Authorization Number (RMA#) before sending back the products – Please contact JMAZ at support@jmazlighting.com. Send the product only to the JMAZ Headquarter. All shipping charges must be Pre - Paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, JMAZ will pay return shipping charges only to a designated point within the United States of America. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped, JMAZ shall have no liability whatsoever for loss of or damage to any such accessories, not for the safe return thereof.
C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which JMAZ concluded, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the JMAZ factory unless prior written authorization was issued to purchaser by JMAZ; if the product is damaged because of improper maintenance as set forth in the instruction manual.
D. This is not a service contract, and this warranty does not include maintenance, cleaning, or periodic checkup. During the period specified above, JMAZ will replace defective parts at its expense with new or refurbished parts and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of JMAZ under this warranty shall be limited to the repair of the product, or replacement thereof,

including parts, as the sole discretion of JMAZ.

E. JMAZ reserves the right to make changes in design and/or improvements to 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 JMAZ in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. No warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has 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 JMAZ be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

FCC Statement

This device meets the requirements of FCC Part 15 regulations. Its operation is subject to the following two conditions:

1. It must not cause harmful interference.
2. It must accept any interference received, including interference that could result in undesired operation.

FCC Radio Frequency Interference Warnings & Instructions

Please be aware that any changes or modifications to this product not explicitly approved by the party responsible for compliance may void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device under Part 15 of the FCC Rules. These limits are intended to provide reasonable protection against harmful interference in a commercial environment. This equipment generates, uses, and can emit radio frequency energy, and if it is not installed and used in accordance with the instructions in this manual, it may cause harmful interference to radio communications. Operating this equipment in a residential area is likely to result in harmful interference, and the user may need to resolve the interference at their own expense.

Europe Energy Saving Notice

Energy Efficiency Matters (EuP 2009/125/EC)

Saving electricity is crucial for protecting the environment. Please turn off all electronic devices when not in use. To prevent power consumption in standby mode, disconnect all equipment from the power source when not in use.

AC Power

Power Requirements: The Electro T5 has an external power supply that requires 12.6V DC, 3 Amps, with a frequency of 50/60Hz.

To ensure proper power supply, refer to the current rating listed on the product's back panel or consult the specifications chart. This rating indicates the average current draw under standard operating conditions.

For accurate circuit breaker sizing, power outlet selection, and wiring requirements, use the listed current value as a guideline. Consider any additional factors, such as the number of fixtures in the installation and the overall electrical load on the circuit.

Safety First: Always connect the product to a protected circuit equipped with a circuit breaker or fuse. Ensure the product is grounded properly to minimize the risk of electrical shock or fire.

Extend Product Life: To reduce unnecessary wear and extend the product's lifespan, disconnect it completely from power—either by turning off the breaker, unplugging it, or switching it off—during periods of non-use.

Battery

Battery Life Indicator

The OLED menu screen indicators display the remaining battery life of the fixture.

Battery Charging

The Electro T5’s built-in battery charges automatically when connected to a power source with the included AC charger. If the fixture is plugged in but not in use, make sure it is fully powered off.

Battery Safety Information

- Avoid causing a short circuit in the battery. A short circuit generates a high current, which can lead to overheating, leakage of electrolyte gel, release of harmful fumes, explosion risk, or other types of battery damage.
- Dropping, impacting, striking, bending, or subjecting the unit to other forms of mechanical shock may compromise the battery's performance and longevity.
- The fixture should not be exposed to intense heat or fire. Incineration or disposal of the fixture in a fire is strictly prohibited and may result in an explosion of the battery.

Please be aware that shipping may result in damage to the fixture. Should any damage be observed, including damage to the fixture, chemical or electrolyte odors, leakage of the electrolyte gel, or other miscellaneous damage, please do not turn on the fixture and avoid any contact with any leaking material from the fixture.

IP65 Disclaimer:

The International Protection (IP) rating system is represented as "IP" (Ingress Protection) followed by two numbers (e.g., IP65), which indicate the level of protection. The first digit (Foreign Bodies Protection) shows the degree of protection against solid particles entering the device, while the second digit (Water Protection) represents the level of protection against water ingress. An IP65-rated lighting fixture is designed and tested to protect against dust ingress (6) and low-pressure water jets from any direction (5).

WARNING: Intended for TEMPORARY outdoor use only.

Maritime/Coastal Environment Installations: A coastal environment refers to areas directly adjacent to the sea and poses a risk to electronics due to exposure to atomized saltwater and humidity. A maritime environment includes any area within 5 miles of a coastal environment.

Not suitable for maritime or coastal environments. Installing this fixture in a marine or coastal area may lead to corrosion or excessive wear, damaging both internal and external components. Any damage or performance problems resulting from such installation will void the manufacturer's warranty.

Maritime installations require specialized preparation and maintenance. Due to the corrosive nature of marine environments, IP ratings designed for freshwater may not be sufficient. Regular maintenance and potential duty-cycles are essential to prevent damage. In humid or cold conditions, condensation can occur internally, necessitating duty-cycles to expel moisture. For permanent outdoor installations, a waterproof dome is highly recommended. Consult the dome

manufacturer for specific duty-cycle guidelines.

Important: Not all features are available on every fixture. These instructions may not apply to your specific model. Please contact support for more information.

Exterior Maintenance: Inspect the exterior every 30 days. Ensure the unit is powered off and disconnected. Check the optics for any obstructions on the lens, and clean both the optics and chassis as needed. Schedule future maintenance based on your initial findings, keeping in mind that regular exterior maintenance is required, even if the luminaires are not in use due to their outdoor location. Applying a durable wax to the chassis is recommended to prevent contaminant buildup. Inspect power and data lines for signs of contamination or corrosion, and periodically reapply dielectric grease, especially in coastal environments. If any contamination or corrosion is found, thoroughly clean and/or replace connectors, then reapply dielectric grease. This maintenance should typically be performed annually or whenever an opportunity arises. To prevent issues, it is recommended to replace both vent valves annually, as the membrane can become contaminated or clogged, leading to improper venting of humidity within the luminaire. Inspect all mounting hardware as a precaution.

Interior Maintenance: Inspect the interior monthly while the unit is powered off.

- Inspect and clean the zoom/focus mechanism. Lubricate linear bearings with Krytox oil as needed, and check belts for wear.
- Inspect and manually rotate all rotating effect wheels, noting any resistance.
- Inspect all remaining rotating belts for wear.
- Inspect, clean, and check the rotation and connections of all fans.
- Inspect the CMY module, manually move flags, and check for resistance. If necessary, clean guide rods and reapply a thin layer of moly lube.
- Clean the interior with low-volume compressed air and optics before reassembling head covers.

While the base has limited moving parts, inspect the pan belt for wear. Always perform an IP test after removing any cover.

There's no fixed replacement schedule for parts like belts, stepper motors, PCBs, or LEDs. Replace them only when necessary. Cooling fans should be replaced proactively at 10,000 hours to maintain optimal cooling and protect internal components. In case a full-service breakdown is needed, please reach out to us at: support@jmazlighting.com.

Important: Only the fixtures are IP65 rated. The flight case and charging bases are not designed for outdoor use or exposure to moisture.

This unit contains no user-serviceable parts. Attempting repairs will void the warranty. Modifications or disregard of safety instructions will also void the warranty.

Never look directly into the light source. Doing so can cause serious eye damage, including blindness. Sensitive individuals may experience epileptic seizures.

Safety Precautions

- **Keep away from children.**
- **Avoid touching the fixture housing during operation.** Allow it to cool for 15 minutes before servicing.
- **Handle with care.** Avoid shaking or using excessive force.
- **Inspect the power cord.** Do not use if frayed, crimped, or damaged. Replace damaged cords immediately.
- **Do not remove the ground prong.** It's for safety.
- **Do not operate if damaged.**
- **Disconnect power before making connections.**
- **Ensure proper ventilation.** Maintain at least 6 inches (15 cm) of clearance around the fixture.
- **Do not remove the cover.**
- **Use secure mounting.** Use M10 x 25mm hardware and a safety cable for suspended installations.
- **Avoid dimmer packs.**
- **Disconnect during long periods of non-use.**
- **Mount in a stable location.**
- **Route power cords carefully.**
- **Clean as recommended by the manufacturer.**
- **Keep away from heat sources.**

Service: Have the fixture serviced by a qualified technician if:

- The power cord or plug is damaged.
- Objects have fallen into the fixture, or liquids have been spilled on it.
- The fixture is not operating normally or exhibits performance changes.

Protection Class 1: This fixture must be properly grounded. It contains no user-serviceable parts. Attempting repairs yourself will void the manufacturer's warranty. Modifying the fixture or ignoring the safety instructions and guidelines will also void the warranty and exclude any warranty claims or repairs.

Light Source: Never look directly into the light source, as it can cause retina injury or

blindness. Sensitive individuals may experience epileptic shock.

Temperature: The maximum ambient operating temperature is 140°F (60°C), the minimum ambient operating temperature is 14°F (-10°C). Disconnect the power and allow approximately 15 minutes for the fixture to cool down before servicing.

Handling: Do not shake the fixture or use brute force when installing or operating it.

Power Cord: Do not operate the fixture if the power cord is frayed, crimped, or damaged. Replace the power cord immediately if damaged, using one with the same power rating. Do not remove or break off the ground prong from the electrical cord, as it reduces the risk of electrical shock and fire in the event of an internal short.

Damage: Do not attempt to operate the unit if it has been damaged in any way. Avoid spilling water or other liquids onto the unit.

Connections: Disconnect from the main power before making any type of connection.

Cover: Do not remove the cover for any reason.

Suspended Installation: When installing the fixture in a suspended environment, always install the fixture with an appropriately rated safety cable.

Cleaning: Clean the fixture only as recommended by the manufacturer.

Heat Sources: Keep the fixture away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

Servicing: The fixture should be serviced by qualified personnel if:

- The power-supply cord or plug is damaged.
- Objects have fallen onto or liquid has been spilled into the fixture.
- The fixture does not operate normally or shows a marked change in performance.
- The fixture has fallen or been subjected to extreme handling.

UV Warning

Risk Group 3 - Ultraviolet (UV) Radiation Hazard

This fixture emits high-intensity UV light from the UV color filter.

Wear protective eyewear and clothing. Limit prolonged exposure to the UV color filter.

Avoid white clothing and UV paints on skin. Maintain a minimum distance of 11 feet (3.3 meters) from the fixture to prevent direct eye or skin exposure.

Do not operate with damaged or missing covers.

Never look directly into the UV light or use optical instruments to view it.

Individuals with eye conditions, sunlight sensitivity disorders, or those taking photosensitive medication may experience discomfort from exposure to the UV light."

Additional Note: It's essential to include a warning about potential eye and skin damage from UV radiation, emphasizing the importance of protection.

Specifications:

Light Source

- 192 x 0.5W RGBW+WW LEDS
- LED Life Expectancy: 50,000 Hours

Color System

- RGBW+WW Color Mixing 8/16 bit
- CTO: 2500K to 10000K

Optics

- Beam Angle: 180°

Dynamic Effect

- Individual Dynamic Chase, Fade, Static, and Sound Active Modes
- Max 15 Hour Battery Life / 30 Hour In Battery Saving Mode
- Charging Time: 5 Hours
- Selectable Battery Saving Mode: 25%, 50%, 75%, 100%
- 49 Preset Color Programs
- 4 Advanced Sound Active Mode with 49 Color Options
- 68 Auto / Fade Built-In Programs
- Stand Alone Color Mixing
- Electronic Dimmer
- Fading/Jumping Macros Light Change And Jump
- Shutter/Strobe: Electronic
- Strobe Rate: 0-25 Hz
- Preset Color Temperature

Control

- Protocol: DMX512, Wireless DMX, Wi-Fi, IR Remote
- Personalities (9 Modes): CCT-4CH; HSI-4CH; CCT/HIS-6CH; 16-Bit-13CH; RGBCW+S-7CH; Macro-12CH; Pix8-40CH; Pix16-80CH; Pix32-160CH
- OLED Graphical Display

Electronics

- **Linear Dimmer: 0-100%**
- **CCT: 2,500-10,000K**
- **CRI: ≥ 95**
- **CQS: ≥ 95**
- **TLCI: ≥ 95**
- **Refresh Rate: 20KHz**
- **Control Pixel: 32 Pixels**
- **Strobe Shutter: 0-25Hz**
- **Dimming Modes: 4 (Linear, Exponential, Logarithmic, S-Curve)**

Body

- **Polycarbonate + Aluminum**

Physical

- **IP Rating: 65**
- **Cooling: Fanless**

Certification / Qualifications

- **RoHS, CE, FCC**
- **IP Rating: IP 65**
- **Operating Temperature: –10 ° C (14 ° F) To 60 ° C (140 ° F)**

Electrical

- **Input Voltage: 100 V – 240V AC, 50/60 Hz**
- **Power Consumption: 50W**
- **PWM: 1.5KHz**
- **Battery Voltage: 12.6V / 18Ah**
- **Battery Capacity: 21,700 mAH, 273.4 Wh/hour**
- **Charger: 12.6V, 2A**
- **Rechargeable Battery Type: Lithium Ion ***UL Listed*****

Box Content

Single Unit:

- 1 x Electro T5
- 1 x AC Charger
- 1 x Manual
- 1 x IR Remote
- 1 x Tripod floor stand
- 2 x Eyebolt
- 2 x 5 Pin DMX Cables (male and female)

ELECTRO T5 4PCK:

- 4 x Electro T5
- 4 x AC Power supply
- 8 x 5 Pin DMX Cables (male and female)
- 1 x Manual
- 8 x Eyebolt
- 4 x IR Remote
- 4 x Tripod floor stand
- 8 x Tube holder with metal pin
- 4 x Wing plate
- 1x Hard case (Holds up to 6 Units)

Item Dimension and Weight:

- Dimensions: 46.9″” x 2.1″” x 2.1″”
- Weight: 3.86 lbs.

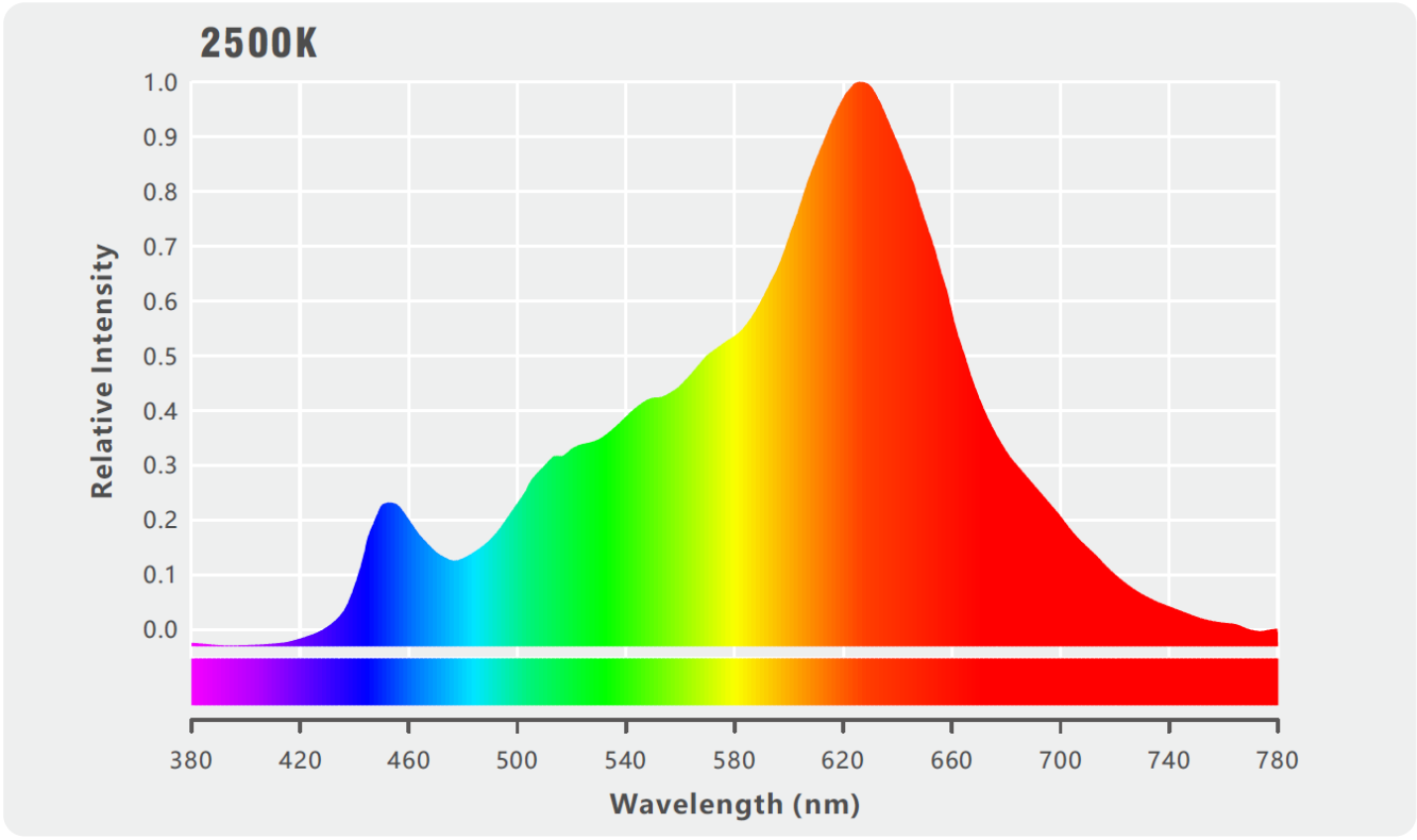
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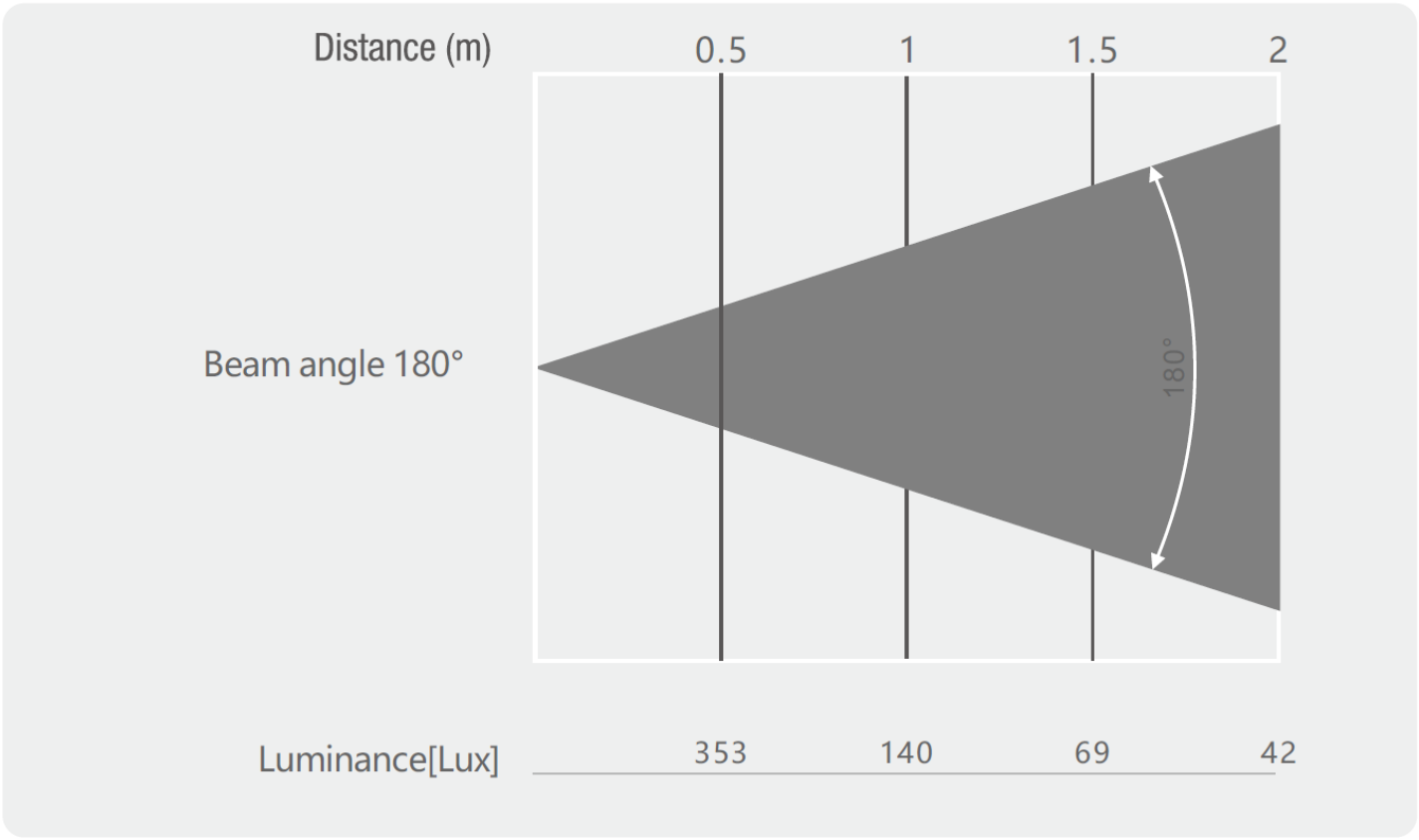
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PHOTOMETRICS MEASUREMENTS:

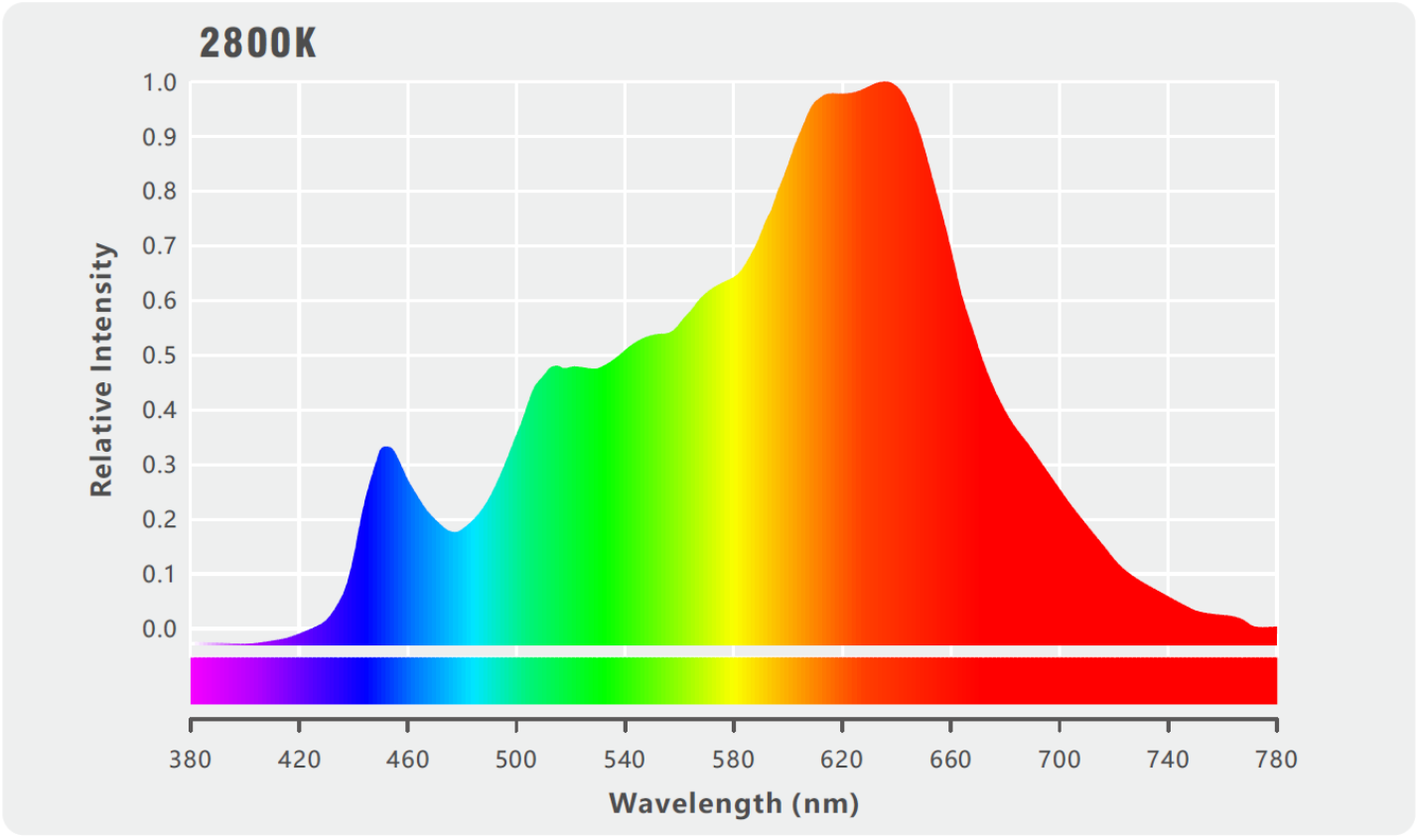
		Luminous flux	Chromaticity coordinates	CCT	R_a CRI
①	2500K	353 lm	x 0.470 y 0.406	2524K	95
②	2800K	358 lm	x 0.450 y 0.410	2848K	97
③	3200K	375 lm	x 0.421 y 0.398	3230K	96
④	4500K	364 lm	x 0.361 y 0.364	4482K	96
⑤	5600K	360 lm	x 0.331 y 0.348	5572K	96
⑥	6500K	376 lm	x 0.314 y 0.328	6443K	96
⑦	8000K	367 lm	x 0.295 y 0.306	7974K	96
⑧	10000K	372 lm	x 0.281 y 0.288	9942K	96

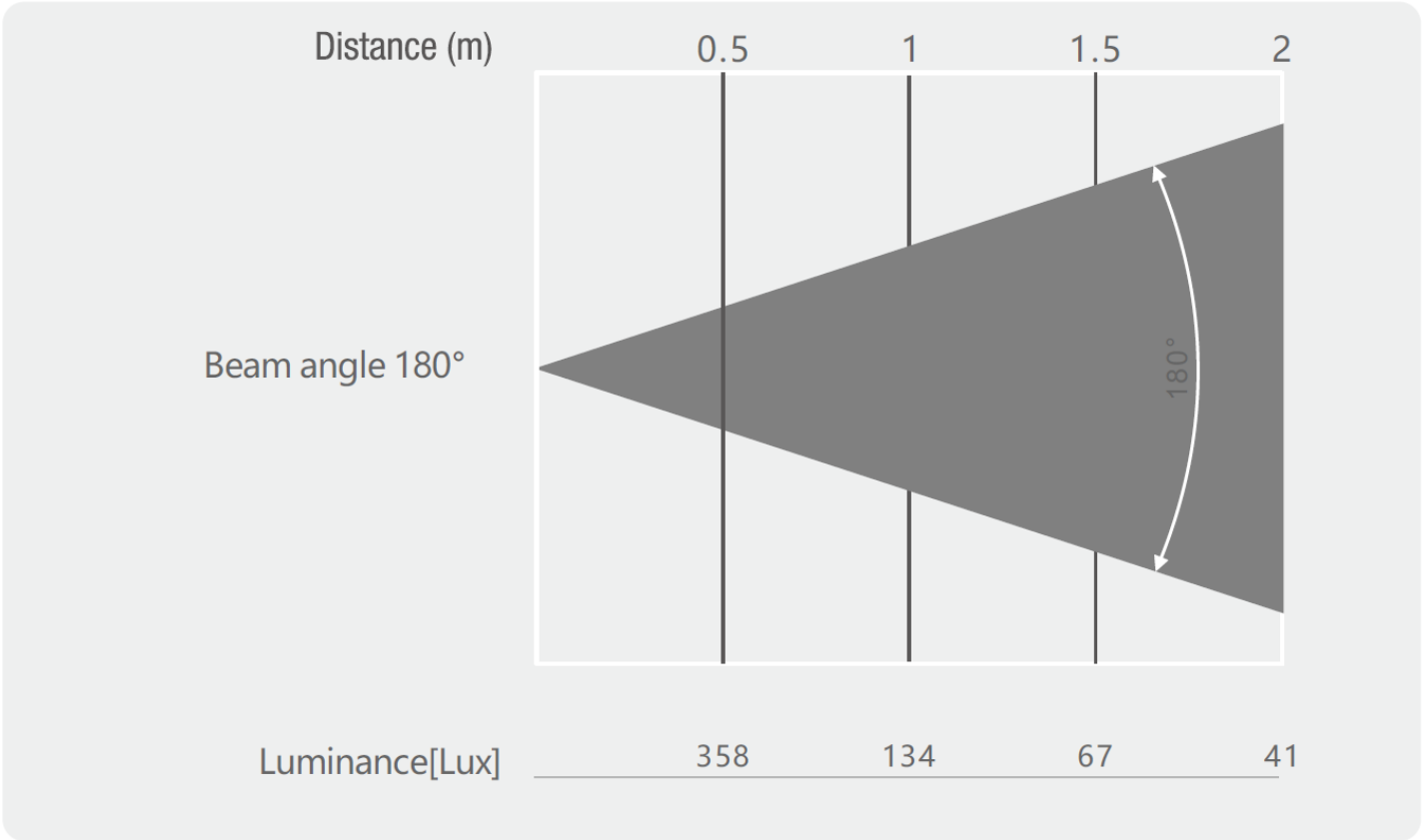
2500K:


2500K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780
Wavelength (nm)

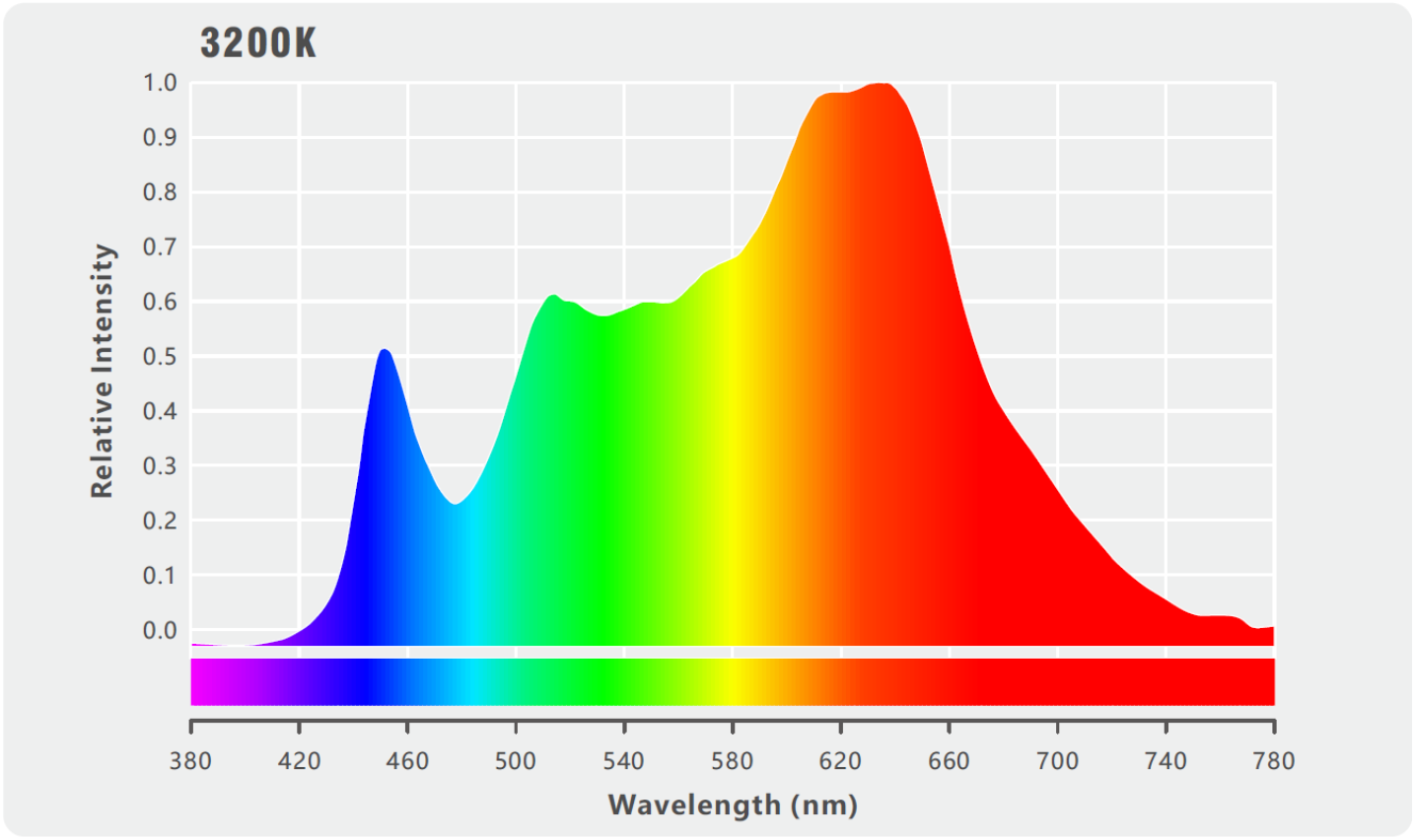

Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
353
140
69
42

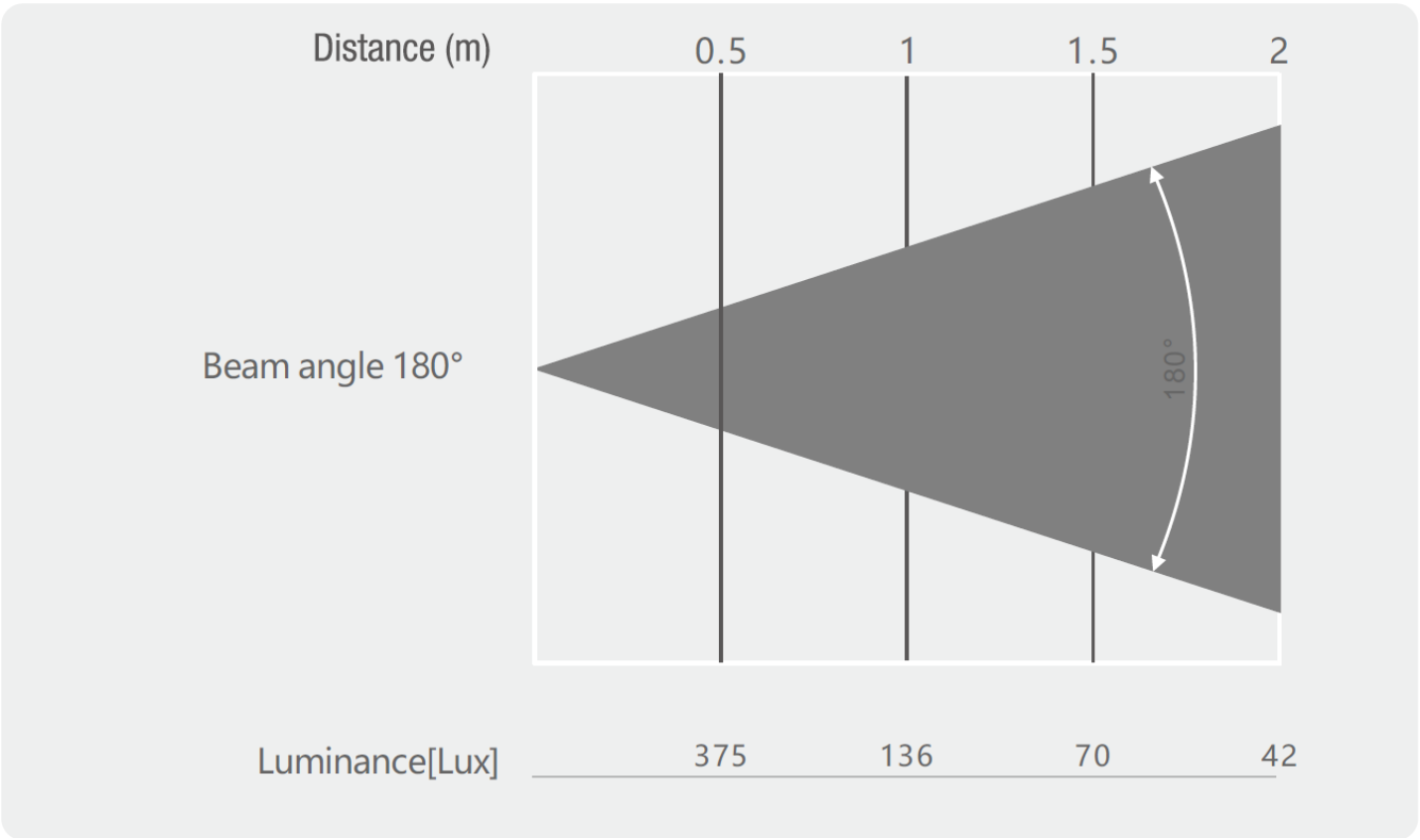
2800K:


2800K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780
Wavelength (nm)

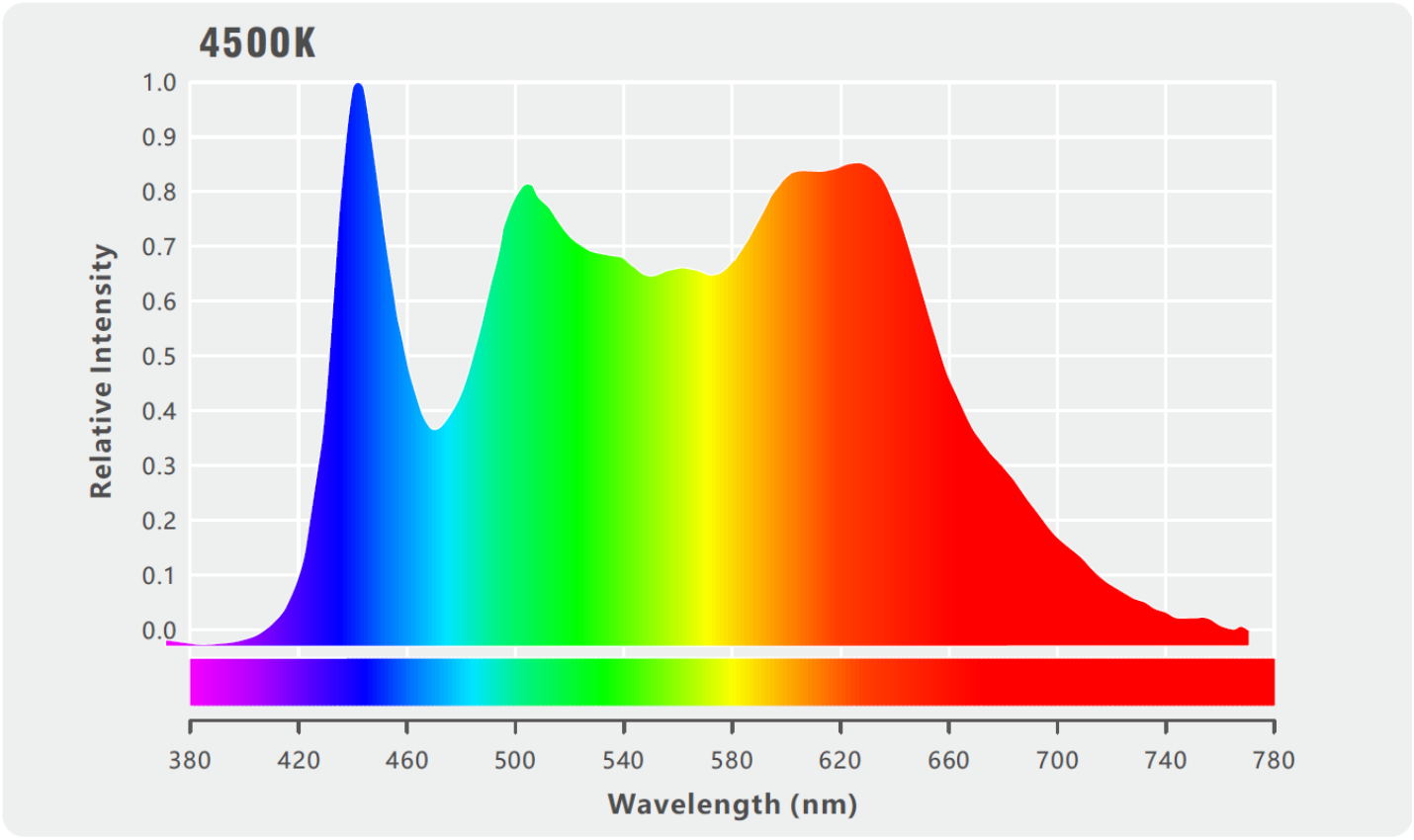

Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
358
134
67
41

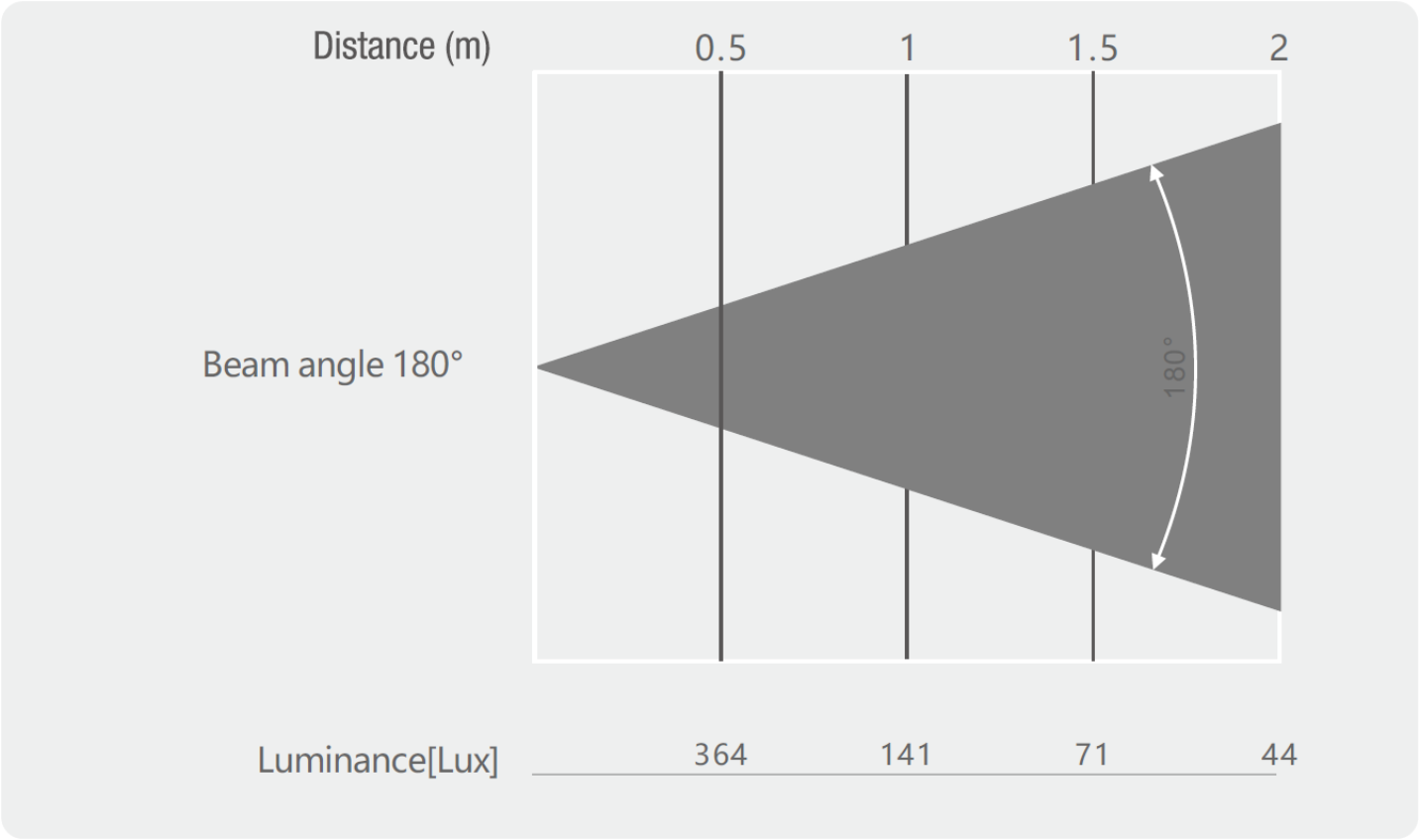
3200K:


3200K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780
Wavelength (nm)

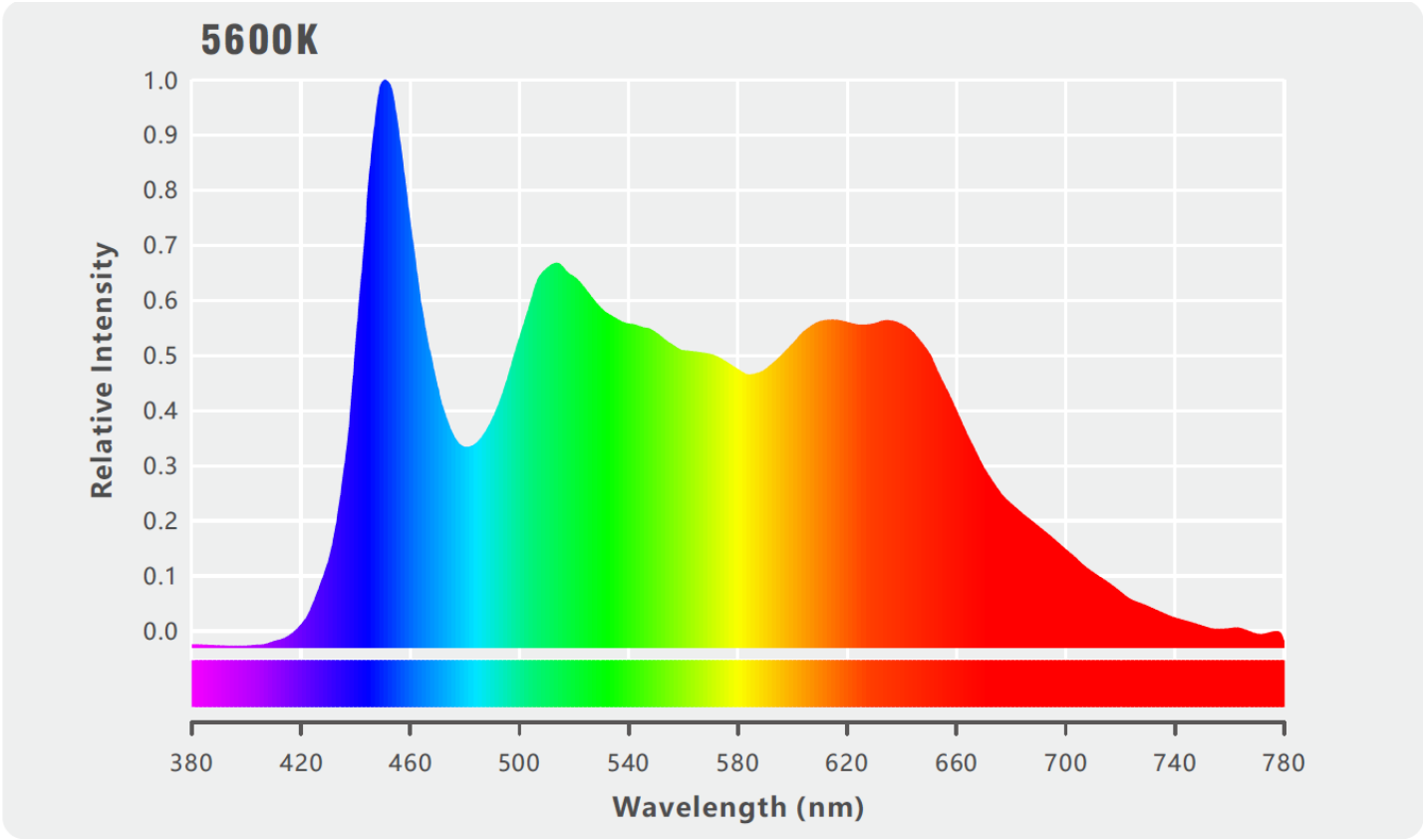

Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
375
136
70
42

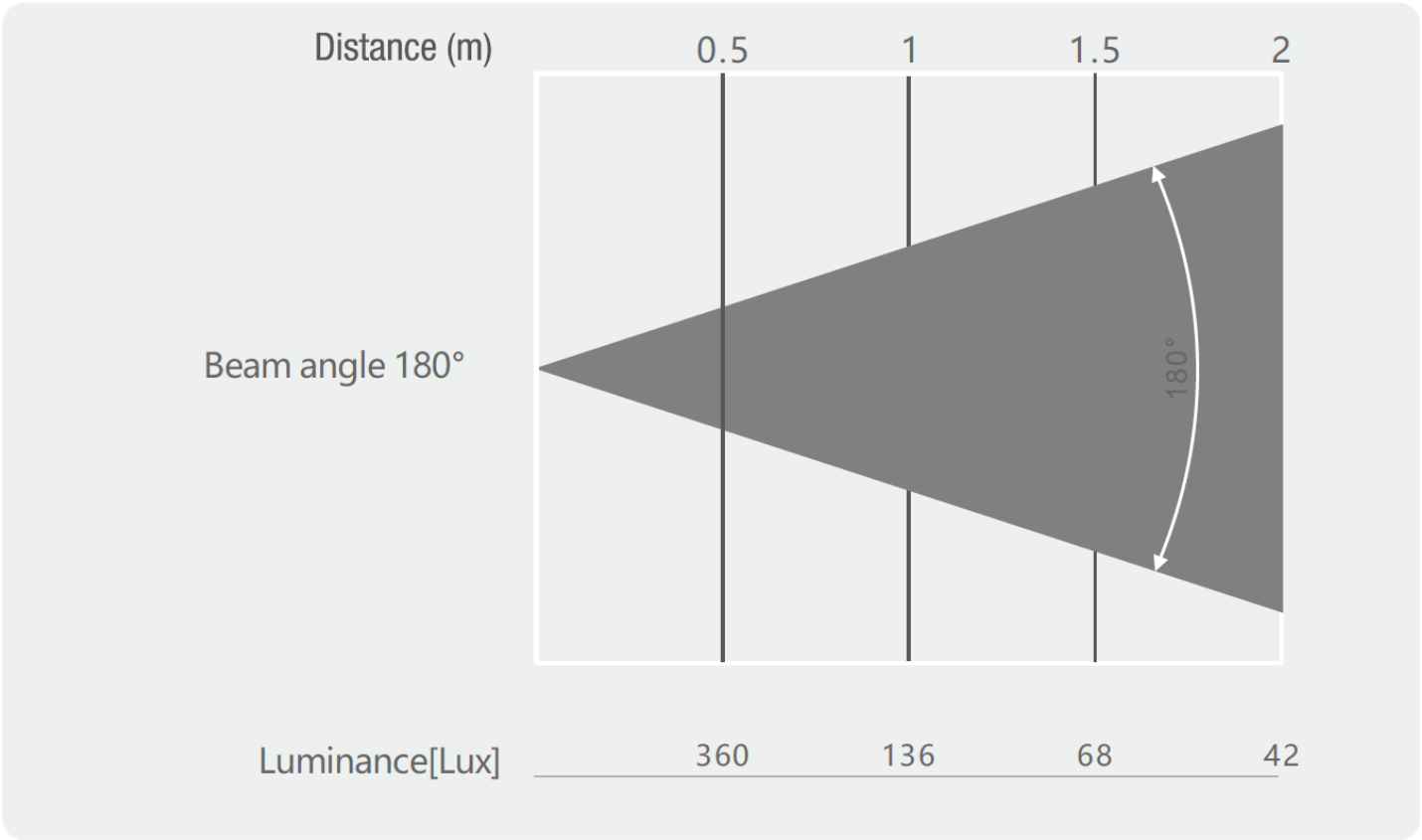
4500k:


4500K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780
Wavelength (nm)

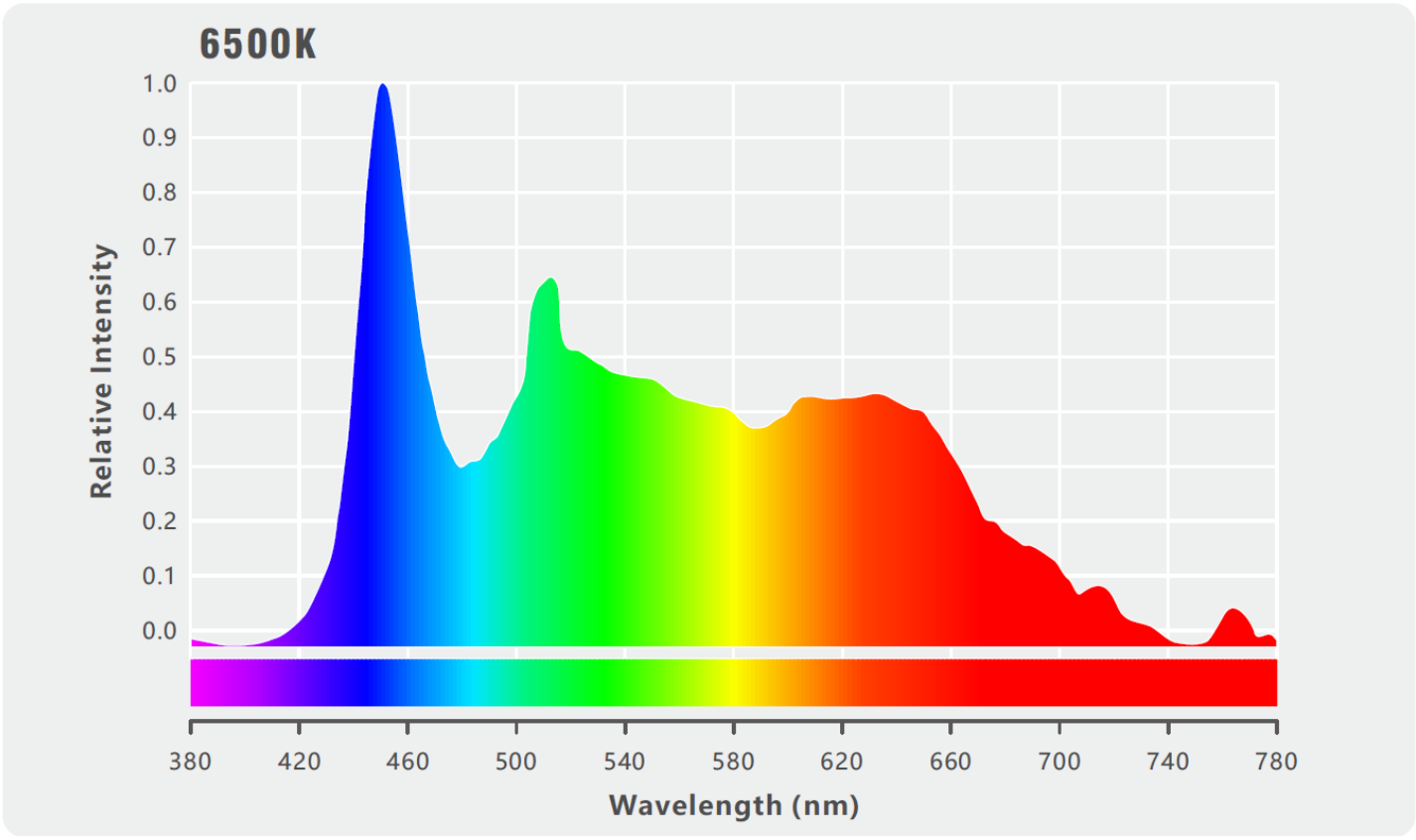

Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
364
141
71
44

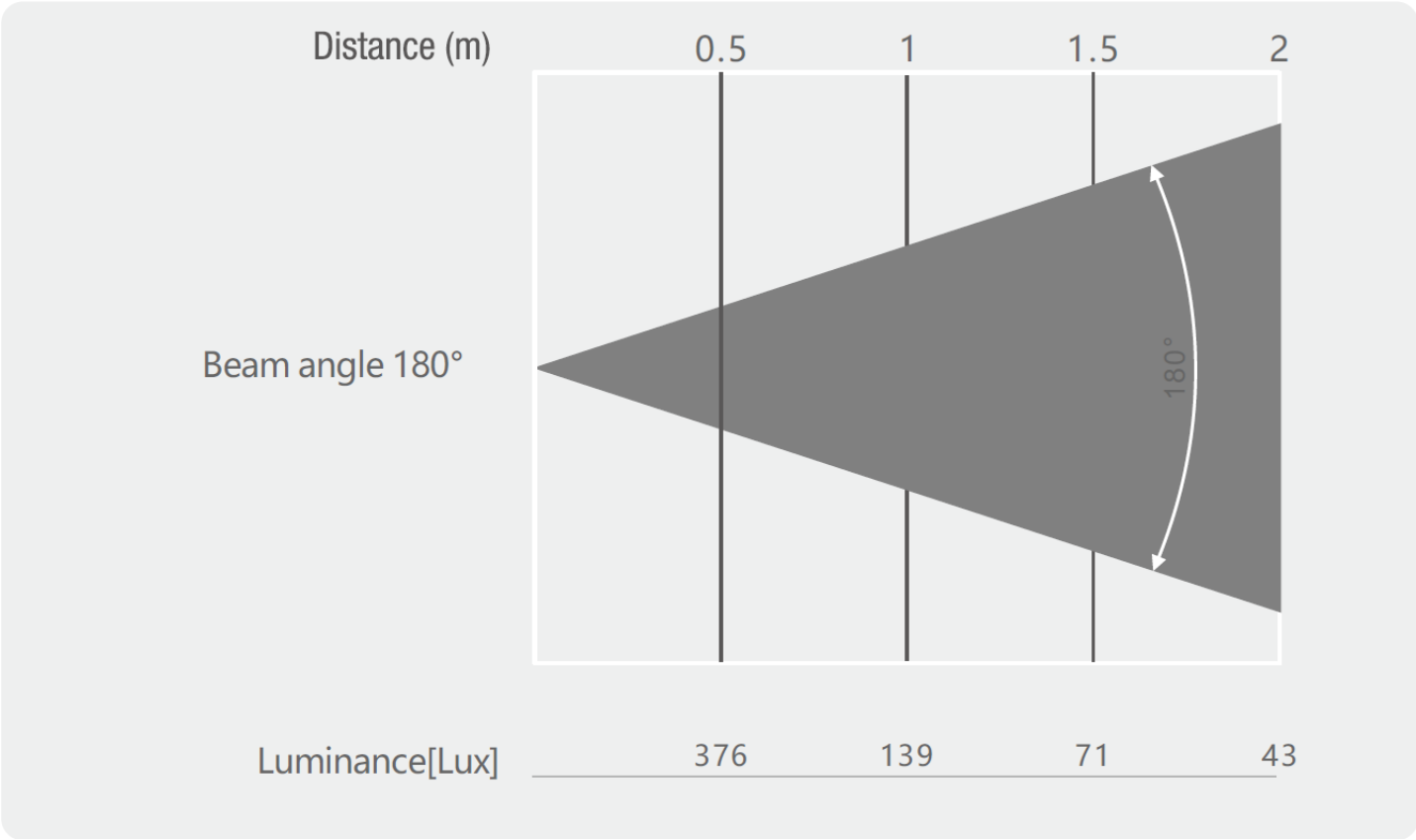
5600K:


5600K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780
Wavelength (nm)

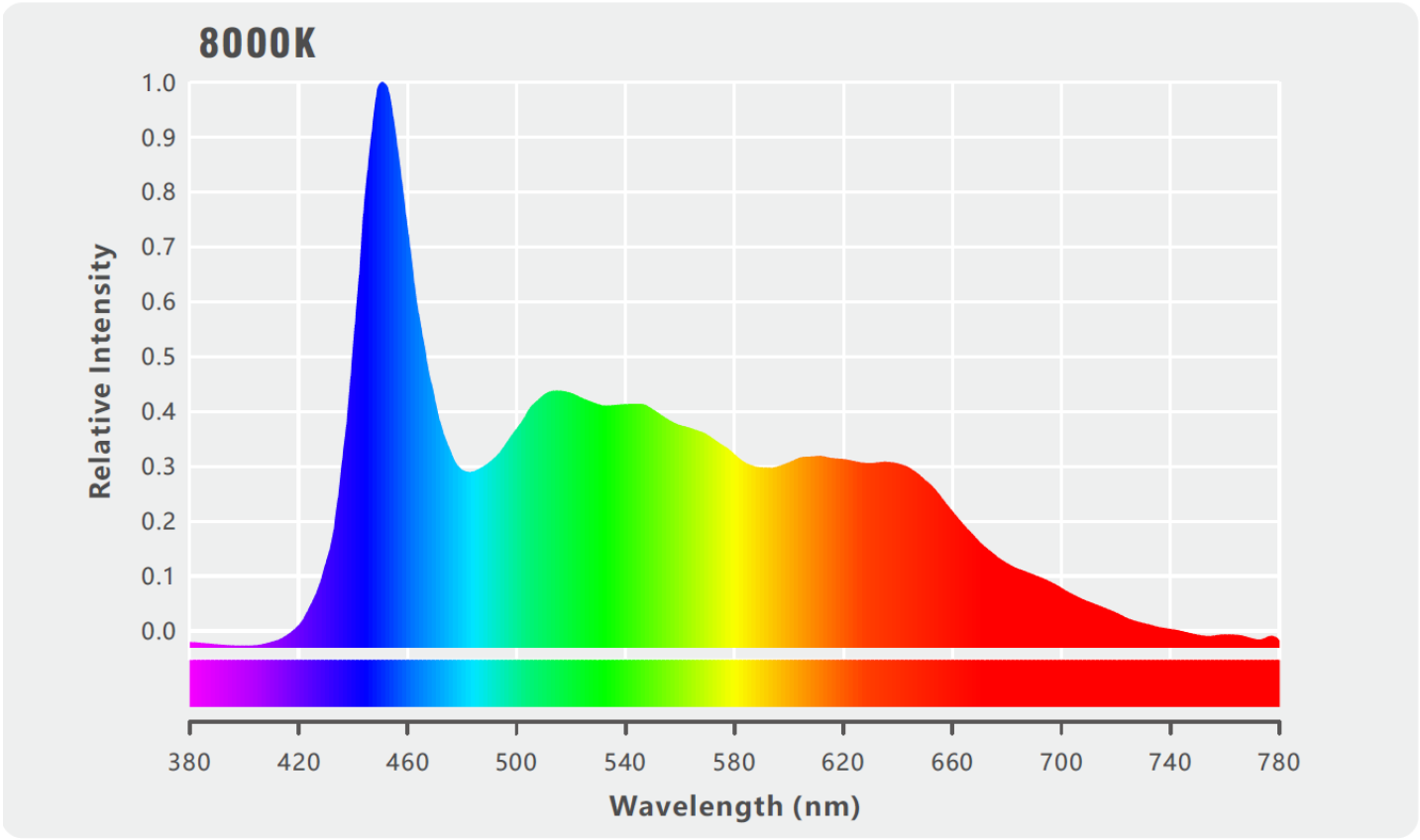

Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
360
136
68
42

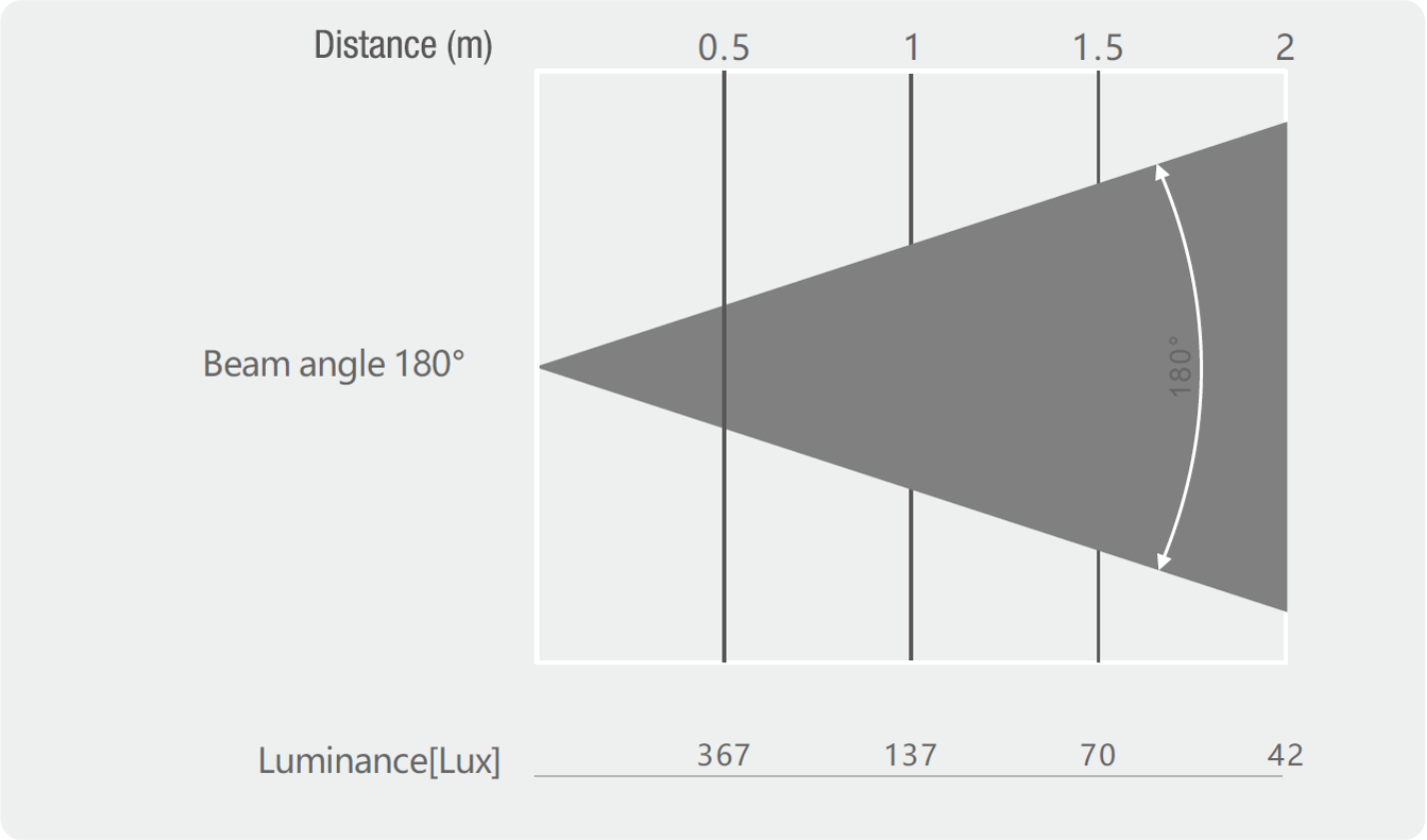
6500k:


6500K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780
Wavelength (nm)

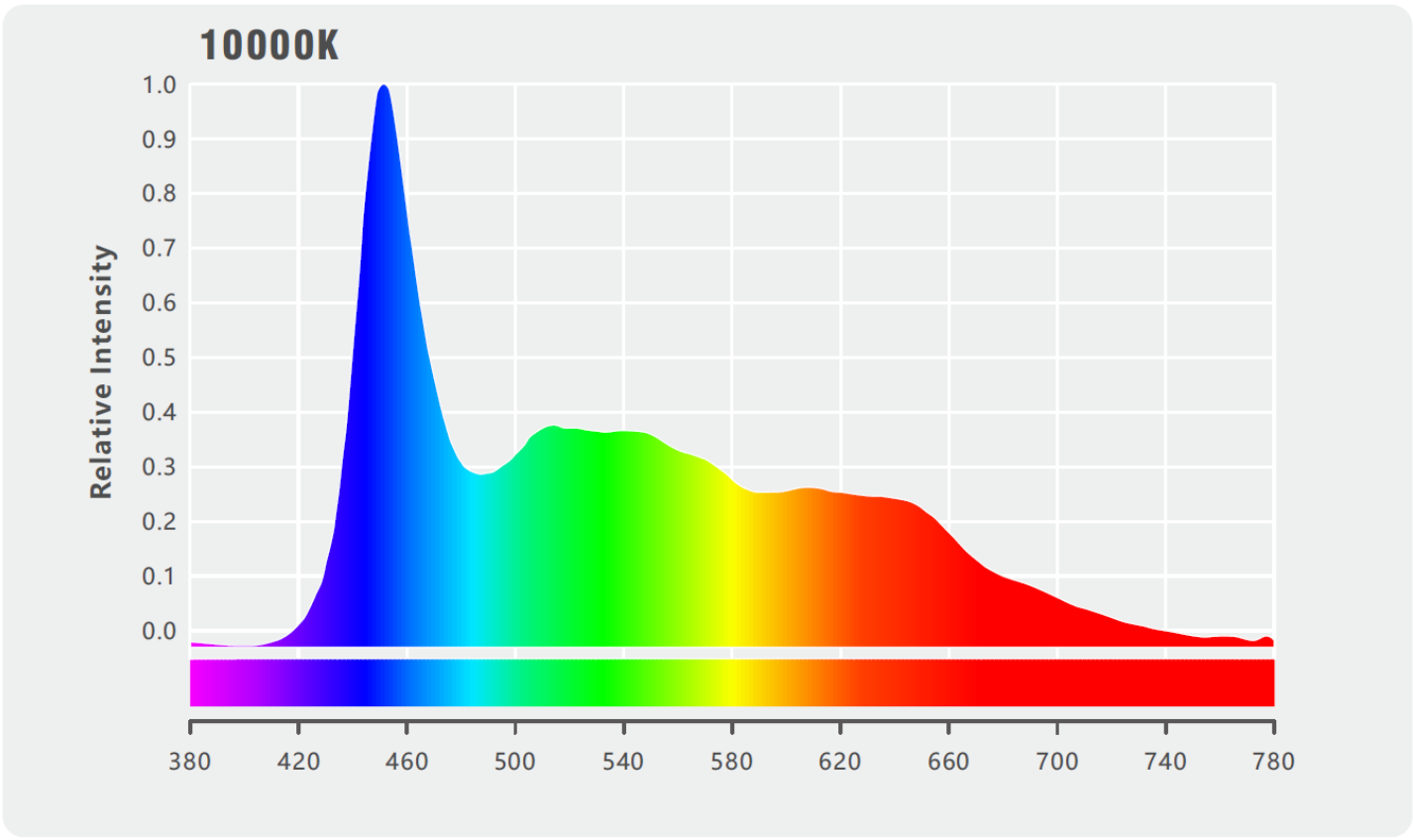

Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
376
139
71
43

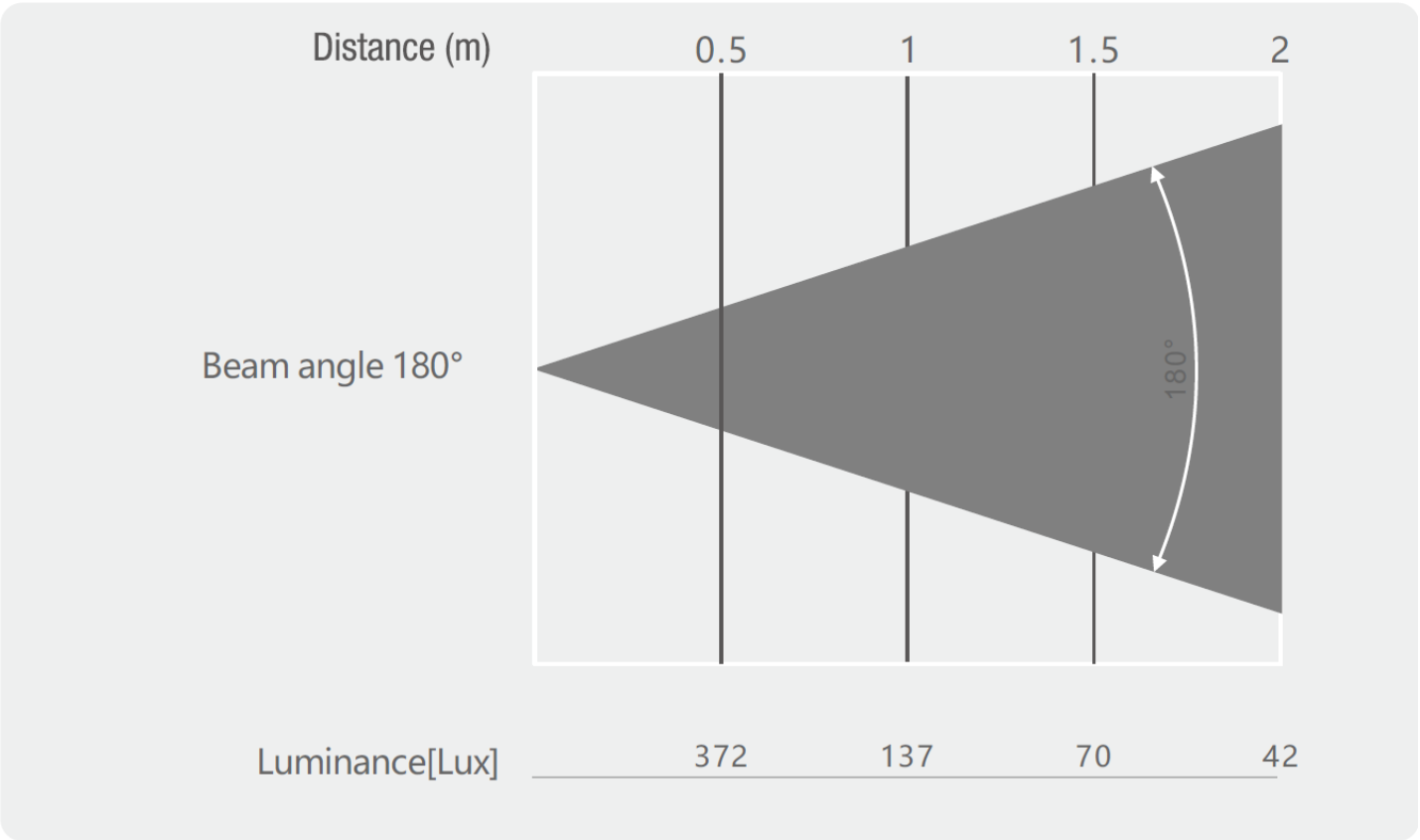
8000K:

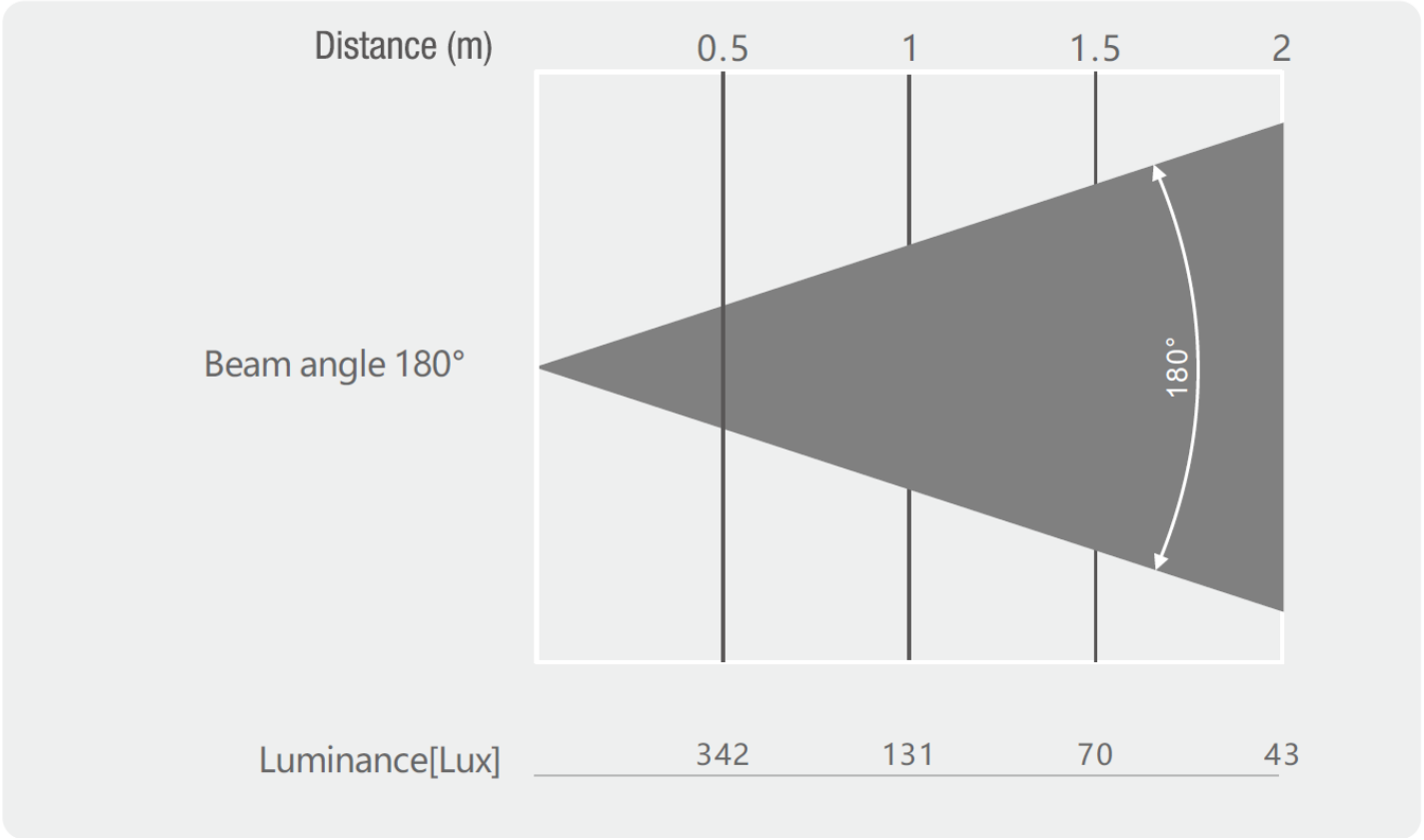

8000K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780
Wavelength (nm)


Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
367
137
70
42

10000K:


10000K
Relative Intensity
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
380
420
460
500
540
580
620
660
700
740
780


Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
372
137
70
42


Distance (m)
0.5
1
1.5
2
Beam angle 180°
180°
Luminance[Lux]
342
131
70
43

Installation Guidelines

Qualification: Only qualified individuals should install this fixture.

Compliance: Installation must comply with all local, national, and international commercial electrical and construction codes and regulations.

Support Structure: The trussing or installation area must support at least 10 times the weight of the fixture and any attached accessories without deformation.

Safety Attachments: The unit must be secured with a secondary safety attachment, such as an appropriately rated safety cable.

Professional Consultation: Before mounting the fixture to any metal truss/structure or placing it on any surface, consult a professional equipment installer to ensure the structure or surface can safely support the combined weight of the fixture, clamps, cables, and accessories.

Operating Temperature: The maximum ambient operating temperature is 140°F (60°C).

Placement: Install fixtures away from walking paths, seating areas, or locations where unauthorized personnel might reach them.

Safety Precautions: Never stand directly below the fixture when rigging, removing, or servicing it.

Overhead Installation: Overhead installations must always be secured with a secondary safety attachment, such as an appropriately rated safety cable that can hold at least 10 times the weight of the fixture.

Experience Required: Overhead mounting requires extensive experience, including calculating working load limits, understanding the installation material, and periodically inspecting all installation materials and the fixture itself. If you lack these qualifications, do not attempt the installation yourself.

Annual Inspection: The installation should be checked by a skilled professional once a year.

MOUNTING ACCESSORIES

The Electro T5 offers multiple mounting choices through specialized accessories.

Mounting Instructions:

Floor Stand

For a rapid vertical setup, the floorstand can be attached to the tube using one of its M5 threads. It is also foldable for easy transportation.



INSTALLATION INSTRUCTIONS

Rigging the fixture

	**CAUTION!** PLEASE CONSIDER THE RESPECTIVE NATIONAL NORMS DURING THE INSTALLATION. THE INSTALLATION MUST ONLY BE CARRIED OUT BY A QUALIFIED PERSON.

- The installation of the effect must be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.
- The installation must always be secured with a secondary safety attachment, e.g. an appropriate safety rope.
- Never stand directly below the device when mounting, removing or servicing the fixture.
- The operator must make sure the safety relating and machine technical installations are approved by an expert before taking the device into operation for the first time.
- These installations must be approved by a skilled person once a year.
- Overhead mounting requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Rigging using the Wing Plate

Important: This step is very important to ensure safe rigging of the fixture.

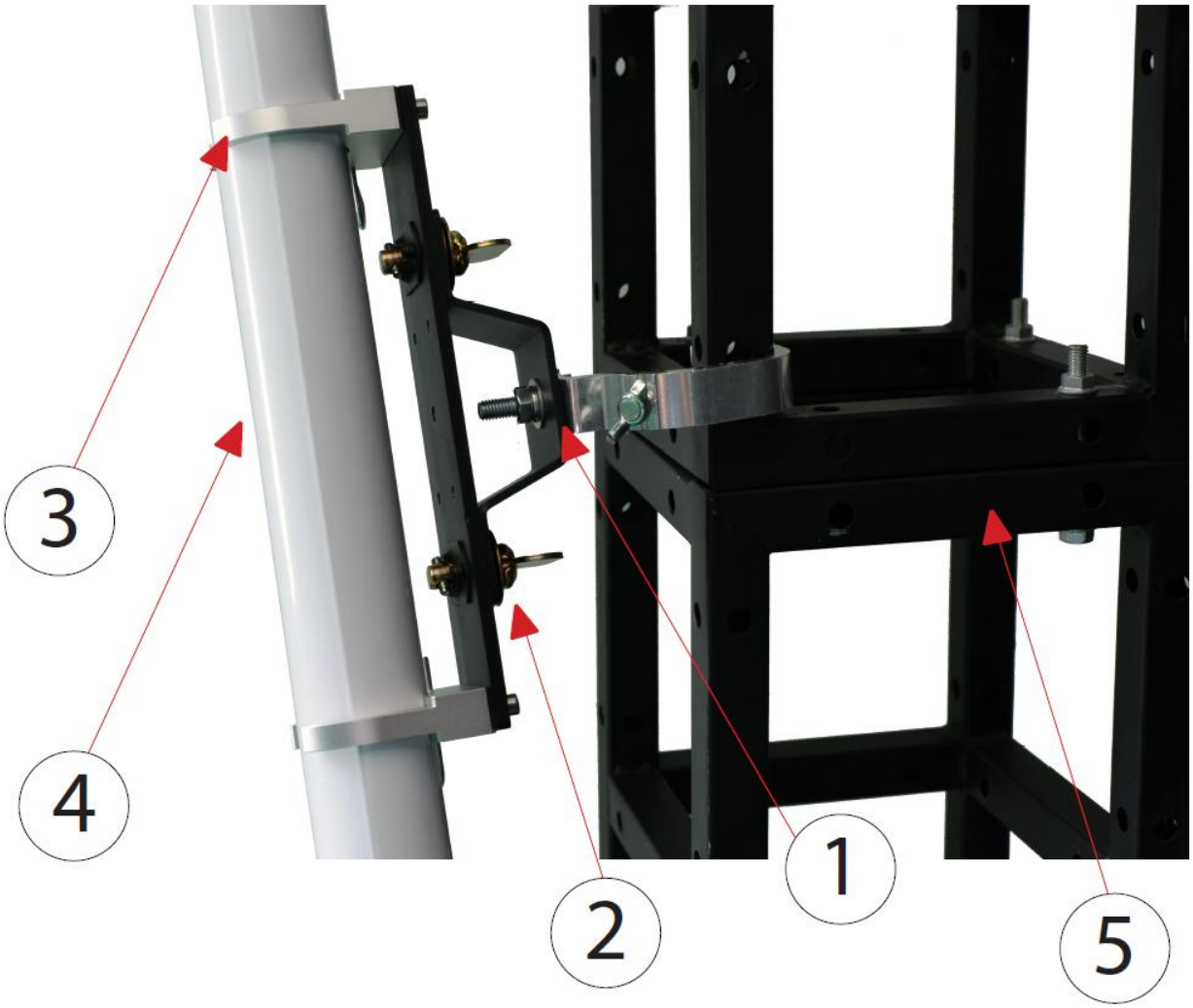
- Fix the tube holder to the wing plate by tightening the nut and bolt to the wing plate through the hole on both sides of the plate.
- The Electro tube holders fit snugly around the Electro Tube. They must be secured in place with metal pins to prevent them from coming loose
- Install the second the tube holder to the wing plate by tightening the nut and bolt
- Eyebolts can be screwed into the M5 threads of the Electro T5 Tube or the holders. They can be used with a safety wire when suspending a tube above people's heads.



#	Name
1	METAL PIN
2	WING PLATE
3	TUBE HOLDER
4	ELECTRO TUBE

Truss Mounting

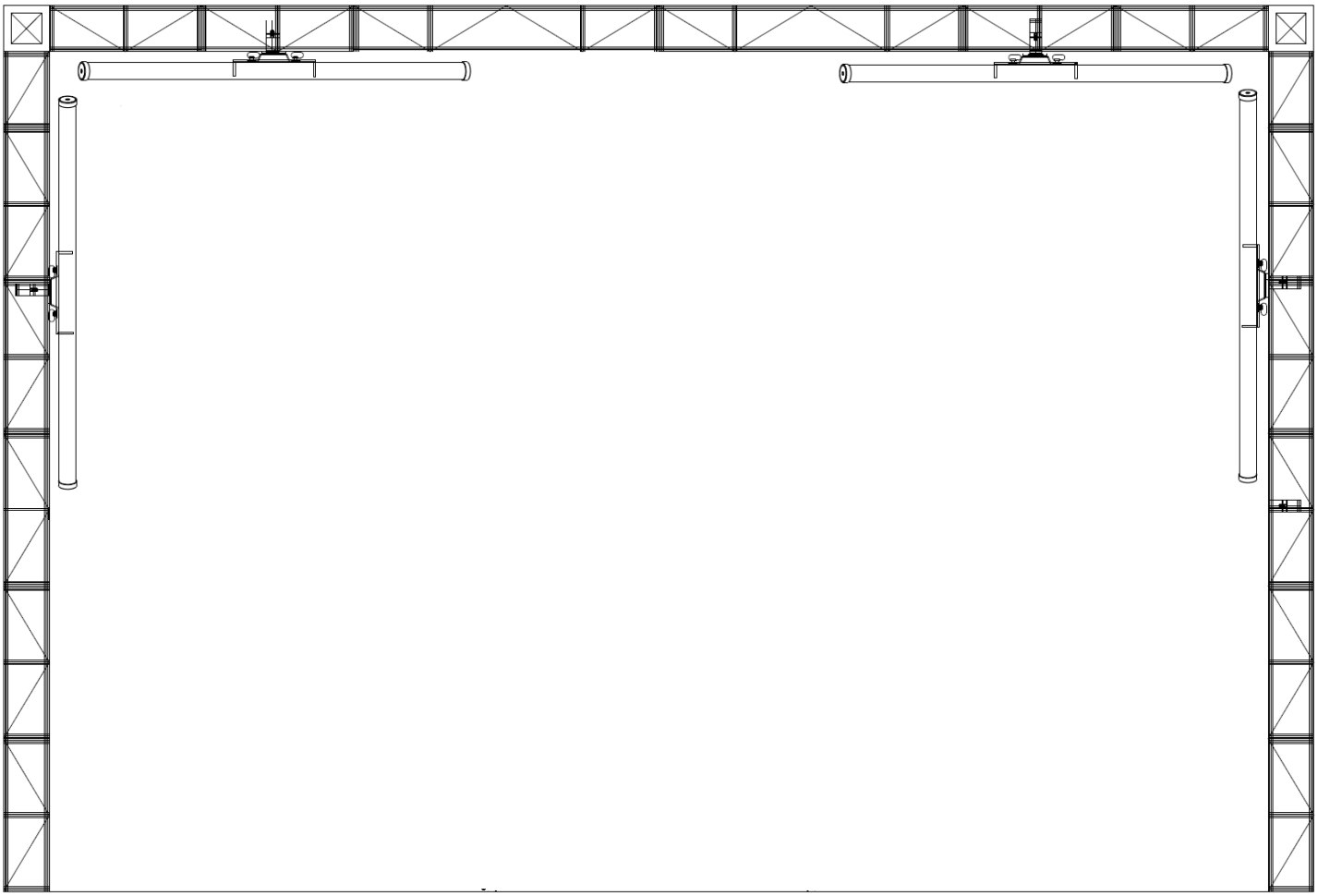
Mounting Instructions:



#	Name
1	TRUSS CLAMP
2	WING PLATE
3	TUBE HOLDER
4	ELECTRO TUBE
5	TRUSS

Rigging Drawing

Important：Overhead rigging requires extensive experience, including (but not limited to) calculating working load limits, specifying installation/ rigging materials, and periodic safety inspection of all installation material as well as the device. If you lack these qualifications, do not attempt the rigging of this device yourself. Improper installation/ rigging can result in serious bodily injury.

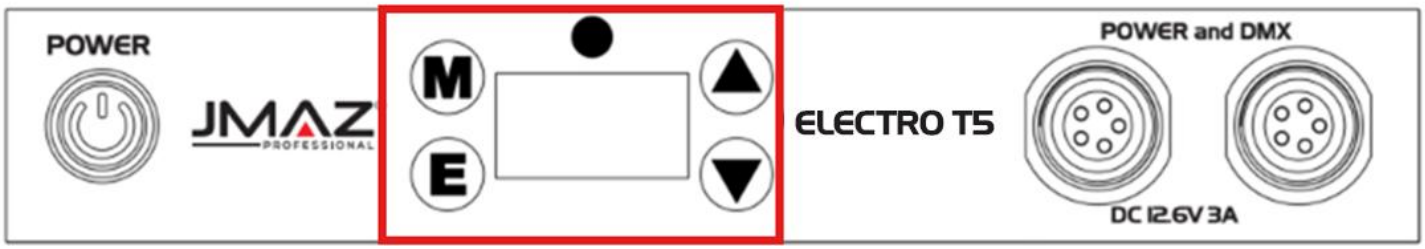


- Be sure this fixture is kept at least 0.1m away from any flammable materials (decoration etc.).
- Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
- Rig the projector high enough to provide clearance for people who may walk beneath the beam path or establish a restricted access area that extends beyond the beam hazard distance.

CONTROL PANEL

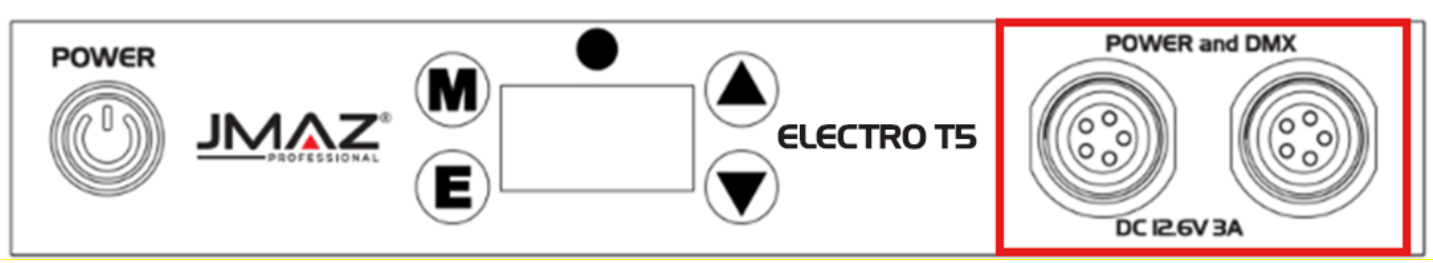
The Electro T5 features a display screen with a 5-button control pad, which can be used to easily adjust any device settings.

- **Power Button**: Press to turn the device on or off.
- **M Button**: Press to cycle through the main menu options or return to the previous menu.
- **E Button**: Press to select the highlighted option or confirm a selection.
- ▲ / ▼ Buttons: Use these buttons to navigate through menu options and adjust settings displayed on the screen.



Power and DMX Connections:

The Electro T5 features Two DMX Connections that both offer charging capabilities and DMX Control. Both connections are capable of offering the same function and are interchangeable to suit your needs.



System Menu

Main menu	Primary-menu	Sub-menu	Function
Address	001--512		DMX address mode
Channel	CCT-4CH		DMX channel mode
	HSI-4CH		
	CCT/HSI-6CH		
	16Bit-13CH		
	RGBCW+S-7CH		
	Marco-12CH		
	Pix8-40CH		
	Pix16-80CH		
	Pix32-160CH		
Loss of Data	Hold		Hold the DMX setting
	Blackout		Blackout the DMX setting
Dimmer Curve	Linear		Dimmer Curve setting
	Exponential		
	logarithmic		
	S-Curve		
MANUAL	Red：0-255		Static color mode
	Green：0-255		
	Blue：0-255		
	White：0-255		
	Yellow：0-255		
Mode	Color	DIM：0-255	
		Color：1-49	
		Strobe：0-255	
	Lee Color	DIM：0-255	
		Lee Color	L101, L102, L105, L106, L107, L110, L111, L115, L116, L118, L119, L121, L124, L126, L127, L128，L132, L135, L139, L147, L151, L152, L158, L164, L174, L179, L180, L201, L203, L204
		Strobe：0-255	
	CCT	DIM：0-255	
		CCT	2500K~10000K(increase or decrease by 100K unit)
		G/M：-1.00~1.00	
	HSI	DIM：0-255	
		HUE：0-360	
		STA：0-100	
	Auto	Auto Mode：0-68	
		Speed：1-20	
		Color：0-49	
	Sound	Sound Mode：1-4	
		Sens：1-100	
		Color：0-49	
	WIFI	LED_XXX	
HOST/GUEST	HOST		
	GUEST		
Wireless DMX	On		
	Off		
	Reset		
	Connect		
Power			100% / 75% / 50% / 25%
Information	ELECTRO T5		

	Current Time	xxH xxM xxS (Hours, Minutes, Seconds)	
IR	ON		
	OFF		
Menu Lock	ON		
	OFF		
Back Light	10s		
	30s		
	60s		
Factory Reset	ON		
	YES		

IR Remote

The Electro T5 comes with an IR Remote that allows a user to cycle through different configurations and settings.

To enable the IR Control function, follow the instructions below:
Press the “M” button repeatedly until you see “IR” on the display.
Press the “Up” or “Down” arrows to either turn “ON” or “OFF” the IR Setting.
Press the “E” Button to confirm your selection.

IR Remote Control Operations:
Note: To use the IR Remote, please ensure you are pointing the IR Remote to the top of the screen on the fixture near the JMAZ Logo.



OFF
To black out the light of the fixture.
Pressing the “Off” Button will turn off the light and put the fixture into standby mode.

ON
To turn on the light of the fixture.
Pressing the “On” Button will turn on the light and activate the fixture.

UP
Pressing the “Up” Button will scroll the menu you are in or will increase the value of the function you are selecting.

DOWN
Pressing the “Down” Button will scroll the menu you are in or will decrease the value of the function you are

selecting.

Red (R)
Pressing the “Red (R)” button, will change the light to a static Red color.

Green (G)
Pressing the “Green (G)” button, will change the light to a static Green color.

Blue (B)
Pressing the “Blue (B) button, will change the light to a static Blue color.

White (W)
Pressing the “White (W) button, will change the light to a static White color.

Amber (A)
Pressing the “Amber (A) button, will change the light to a static Amber color.

Cyan (C)
Pressing the “Cyan (C) button, will change the light to a static Cyan color.

Magenta (M)
Pressing the “Magenta (M) button, will change the light to a static Magenta color.

Pink (P)
Pressing the “Pink (P)” button, will change the light to a static Pink color.

Yellow (Y)
Pressing the “Yellow (Y)” button, will change the light to a static Yellow color.

Brightness
Pressing the “Brightness” Button will enter the Dimming setting and will enable you to adjust the brightness of the fixture from 0-100% under the **Manual Mode** only.
Use the Up and Down Button to adjust the brightness from 0-255. (0 = 0% brightness, and 255 = 100% brightness)
Under the Brightness Mode you can also use Buttons 1 – 10 to adjust the brightness from 0-100% in 10% intervals. (Ex. 1 = 10%, 2 = 20% ..10 = 100% Brightness, Button 11 has No Function, Button 12 will Reset the Value back to 0.)

Manual
Pressing the “Manual” Button will set the fixture into the Manual Color Mode.
Pressing the Color Buttons (R, G, B, W, A, and C = UV) will set the fixture to the value of the color.
Pressing the R Button will adjust the brightness value of the Red color.

A. Button 1 = 10%, Button 2 = 20% ...10 = 100% Brightness, Button 11 has No Function, Button 12 will Reset the brightness of the Red color back to 0.
B. Using the Up and Down Button will adjust the brightness from 0-255. (0 = 0% brightness, and 255 = 100% brightness)

Pressing the G Button will adjust the brightness value of the Green color.

A. Button 1 = 10%, Button 2 = 20% ...10 = 100% Brightness, Button 11 has No Function, Button 12 will Reset the brightness of the Green color back to 0.
B. Using the Up and Down Button will adjust the brightness from 0-255. (0 = 0% brightness, and 255 = 100% brightness)

DMX
Pressing the “DMX” Button will set the fixture into DMX Mode.

How to Set Fade Mode: (Fade Show)

- Press the “Fade” Button, this will set the Fixture into “Fade” Program Mode
- After selecting the Fade Program, press the “ID” Button to select the desired color, then press the Number Buttons “1 to 12” to set your desired color. Or use the “Up and Down” buttons to go through the Colors from 0 – 49.
- After selecting the Color for the Fade Program, press the “Speed” Button. Next, press one of the Number Buttons “1 to 10” to set your desired speed. (Button 1 = 10%, Button 2 = 20%… Button 10 = 100%. Button 12 will reset the Speed to 0).

How to Set CCT: (62 Color Temperatures)

- Press the “CCT” Button to set the Fixture into “CCT” Mode.
- Press Buttons “1 to 12” will cycle the fixture through different preset CCT temperatures.

Or

- Use the “Up and Down” Buttons to cycle through all the CCT values (2500K to 10000K) in 100K intervals.

Function Buttons:

Host:

- Press the “Host” Button to set the Fixture to be the “Master” Fixture.

Guest:

- Press the “Guest” Button to set the Fixture to be the “Slave” Fixture.

ID:

- “ID” Button will be linked primarily for use in the Auto and Fade Mode for color selection.

Battery:

- Press the Battery Button to set the Fixture into the Battery setting.
- Press Buttons 1 to 4 *will adjust the brightness** of the Fixture in 25% intervals.
    i. Button 1 = 25%
    ii. Button 2 = 50%
    iii. Button 3 = 75%

iv. Button 4 = 100% (By default, the Fixture will be set at 100%)

*Note**: Decreasing the Brightness in this setting will extend the current battery life for this session depending on usage.*

DMX:

- Press the "DMX" Button to set the fixture into DMX Mode.

How to Set Advance Sound Active Mode: (4 Sound Programs)

- Press the Sound Button to set the Fixture into "Sound" Program Mode
- Press Buttons 1 to 4 to select your desired Sound Program (1 to 4 Only) or
- Use the Up and Down Buttons to cycle through all Sound Programs (Programs 1 to 4)
- After selecting the Sound Program, press the Sense Button. Press the Number Buttons 1 to 10 to set your desired Sensitivity. (Button 1 = 10%, Button 2 = 20%…
  Button 10 = 100%. Button 12 will reset the Sensitivity to 0)
- After selecting the Sensitivity for the Sound Program, press the ID Button to select your desired Color. Press the Number Buttons 1 to 12 to set your desired Color. (or Use the Up and Down buttons to select between Colors 1-49)

Strobe:

- Press the Strobe Button to set the Fixture into the Strobe setting.
- Press Buttons 1 to 10 to change the value of the Strobe, this will affect the speed in 10% speed intervals. (Button 1 = 10%, Button 2 = 20%… Button 10 = 100%)

Note: *Button 11 has no function, Button 12 will reset the fixture's strobe value back to 0.*

Sense:

- Press the "Sense" Button to set the fixture into the Sensitivity Setting under the Sound Active Mode.
- Press Buttons 1 to 10 to change the value of the Sensitivity, this will affect the Sensitivity in 10% intervals. (Ex: 1 = 10%, 2 = 20%… 10 = 100%)
- Using the "Up and Down" buttons will change the value of the Sensitivity from 0 to 100%

**Note: Button 11 has no function, Button 12 will reset the fixture's current Sensitivity value back to 0.*

Speed:

- Press the "Speed" Button to change the current value of the Fixture depending on the current mode.
- Using the "Up and Down" buttons will change the value of the Speed from 0 to 10 (Ex: 1 = Slowest, 10 = Fastest)

Button 12 will reset the fixture's current Speed value back to 0.

1. Under Auto Mode, Changing the Speed value will change the speed of the auto programs from fast to slow, or slow to fast.
2. Under Fade Mode, changing the Speed value will change the speed of the Fade Program from fast to slow, or slow to fast.

Manual:

- Pressing the "Manual" Button will set the fixture into the Manual Color Mode.

1. Use the Up and Down arrows to change the Value of the Color selected on the screen, you will be able to change it between 0 to 255. (White, Yellow, Red, Green, Blue,)

2. Press Enter once you have chosen your specified value for the displayed color, this will cycle to the next color.

How to set the Master/ Slave Mode through Wireless DMX

1. Make sure the current fixture does not have an active wireless DMX connection
2. Point the IR remote towards the fixtures that you would want to make the Guest (Slave) in the sequence, then press the “Guest” button on the IR Remote to set the fixture to the Guest (Slave) mode.
3. Repeat this process for all the fixtures you would like to have in Guest (Slave) mode.
4. On the Electro Tubes Control panel, go to the “Wireless DMX” Section, use the “Up and Down” arrows to cycle until you see “Reset”, then press Enter. This will delete any active wireless DMX Connection.
5. Then, use the “Up and Down” arrows until you see the “On” selection. Then press E button to save your selection. This will enable the Wireless DMX function on the Electro Tube.
6. Now at this point, all the Guest (Slave) fixtures are ready to create a new connection to the Host (Master) via Wireless DMX.
7. Point the IR Remote towards the Control Panel Screen of the Electro Tube that will be treated as the Host (Master) fixture and press “Host” on the IR Remote. This will set the fixture to Host (Master) mode.
8. On the Electro Tubes Control panel, go to the “Wireless DMX” Section, use the “Up and Down” arrows to cycle until you see “Reset”, then press Enter. This will delete any active wireless DMX Connection. Then use the “Up and Down” arrows to select the “Connect” option. Press “E” to confirm your selection. The screen will show as “Wireless DMX-Connect >>Wait,” Then press Enter to link all the Guest (Slave) fixtures, to the Host (Master) fixture that are in range.
9. Once a successful connection between the Host (Master) and the Guest (Slave) fixtures has been established, an LED light will change from a solid Red color, to a flashing Green above the “Electro T5” name on the Control Panel on any Guest (Slave) fixture, indicating a successful and active wireless connection. Another indication of a successful and active wireless connection will be in the form of a Flashing Dot at the top of the Control Panel screen.
10. Now you can use the IR Remote to control the Host (Master) Fixture and press any of the Function buttons. The Guest (Slave) Fixtures will mirror the Host (Master) effects.

    *Note: In the Host/Guest (Master/Slave) Mode, the DMX Address and Channel Mode do not need to match on each fixture.

    **Any fixture in the Guest (Slave) Mode will still respond to the IR Remote. For any reason the light is disconnected from the Host (Master) fixture, all that is needed to reconnect the fixtures is to point the IR Remote at the Guest (Slave) fixture and press the “DMX” Button to resync the fixtures. The IR Remote will have priority over the Wireless DMX Host/Guest (Master/Slave) mode.

    **If you would like to add any additional Guest (Slave) fixtures to the Host (Master) fixture, repeat process number 10 to 15 to add any additional fixtures you would like to the master/slave mode.

Note: The IR remote controller should be pointed at the IR infrared receiver. Otherwise, the light will not be controlled.

Host/Guest Setup (Wired)

This feature enables the linking of multiple units in a Master-Slave setup, where one unit serves as the controlling unit (Master) and the others operate based on the Master unit's built-in programs. Any unit can be assigned the role of Master or Slave, but only one unit within the system can function as the Master.

Steps for Master-Slave Connections and Settings:

1. Connecting Units:
    - Daisy chain the units using the XLR connectors located on the rear panels. Standard XLR data cables are required for linking the units.
    - Remember that the male XLR connector serves as the input, while the female XLR connector serves as the output.
    - The first unit in the chain (Master) should use only the female XLR connector, while the last unit in the chain should use only the male XLR connector.
2. Setting Master and Slave Modes:
    - Use the display screen and control panel to navigate to `Host/GuestMode`.
    - Select this sub-menu by pressing the E button, and use the arrow keys to toggle between "Master" and "Slave." Press E to confirm your selection.
3. Configuring All Units:
    - Repeat Step 2 for each unit in the system. Ensure that only one unit is designated as the Master, while all others are set as Slaves.
4. Operational Synchronization:
    - Slave units will now operate in accordance with the behavior of the Master unit.

Standalone Setup:

Address:
To set the DMX Address on the Electro T5, follow the instructions below:
Press the “M” Button on the fixture repeatedly until you see “ADDRESS” on the display.
Press the “Up” and “Down” buttons repeatedly to select the DMX Address between 1 to 512.
Press the “E” Button once you’ve chosen your desired DMX Address.

Channel:
To set the DMX Channel on the Electro T5, follow the instructions below:
Press the “M” Button repeatedly until “DMX Channel” shows on the display.
Press the “Up” and “Down” buttons repeatedly to select your desired DMX Channel: **CCT-4CH; HSI-4CH; CCT/HIS-6CH; 16-Bit-13CH; RGBCW+S-7CH; Macro-12CH; Pix8-40CH; Pix16-80CH; Pix32-160CH**

Loss of Data:
In case of signal loss, the “Loss of Data” setting can be set to either “Hold” or “Blackout”
Hold will keep at the same setting it was at before signal loss.
Blackout will set the fixture to standby and turn off the LED’s.

To set the Loss of Data setting, follow the instructions below.
Press the “M” button repeatedly until you see the “LOSS OF DATA”
Press the “Up” and “Down’ buttons to cycle through the options.
Press the “E” button to confirm your selection.

Dimmer Curve:
To set the Dimmer Curve on the Electro T5, please follow the instructions below:
Press the “M” button repeatedly until you see “Dimmer Curve” on the screen.
Press the “Up” and “Down” arrows to cycle through the different options (Linear, S-Curve, Logarithmic, Exponential)
Press the “E” button to confirm your selection.

Manual:
To set the custom color on the Electro T5, follow the instructions below:
Press the “M” button repeatedly until you see “MANUAL” on the display.
Press the “Up” and “Down” arrows repeatedly to cycle through the different values of the displayed color 000-255 (000 being the lowest, 255 being the highest)
Press the “E” button to confirm your selection, this will also cycle to the next color.
This can be repeated for the following colors: White, Yellow, Red, Green, Blue.

Dynamic Programs:

Preset Color-Mode:
To run the Electro T5 on a Preset Static Color, follow the instructions below:
Press the “M” button repeatedly until you see “MODE” on the screen.
Press the “E” button to enter the “Color” selection.
Press the “E” button to enter the DIM setting
Use the “Up” and “Down” arrows to select the DIM Value between 0-255. (0 being the lowest, 255 being the highest)
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to cycle to the “Color” setting.
Press the “E” button to enter the “Color” setting.
Press the “Up” and “Down” arrows to select the desired Preset Color-Mode between 1 to 49.
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to select the Strobe setting. (0 being the slowest, 255 being the fastest)
Press the “E” button to confirm your selection.
Press the “M” button to exit the Preset Color-Mode.

CCT Mode:
To run the Electro T5 on CCT Mode, follow the instructions below:
Press the “M” button repeatedly until you see “MODE” on the screen.
Press the “Up” and “Down” arrows repeatedly until you see “CCT” on the screen in parentheses.
Press the “E” button to enter the DIM setting
Use the “Up” and “Down” arrows to select the DIM Value between 0-255. (0 being the lowest, 255 being the highest)
Press the “E” button to confirm your selection
Press the “Up and “Down” arrows to cycle to the “CCT” setting.
Press the “E” button to enter the “CCT” mode.
Press the “Up” and “Down” arrows to cycle through the different CCT values in 100K intervals.
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to cycle to the “G/M” Setting.
Press the “E” button to enter the “G/M” setting.
Press the “Up” and “Down’ arrows to cycle through the “G/M” value in 0.01 intervals.
Press the “E” button to confirm your selection.

Auto-Programs:
To set the Electro T5 in Automatic Mode, follow the instructions below:
Press the “M” button repeatedly until you see “MODE” on the screen.
Press the “Up” and “Down” arrows repeatedly until you see “AUTO” on the screen in parentheses.
Press the “E” button to enter the “AUTO” mode.
Press the “E” button to edit the Auto Mode you wish to enter between the 68 built-in programs.
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to highlight the “Speed” setting.
Press the “E” button to enter the Speed setting in the Auto modes.
Press the “Up” and “Down” arrows to cycle between the 20 different Speeds on the Auto Mode. (1 being the slowest, 20 being the fastest)
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to highlight the “Color” setting in Auto Mode.
Press the “E” button to enter the “Color” setting in Auto mode.
Press the “Up” and “Down” arrows to cycle through the values 0 to 49 for the different color values.
Press the “E” button to confirm your selection.

Sound Active Mode:

To set the Electro T5 in Sound Active Mode, follow the instructions below:
Press the “M” button repeatedly until you see “MODE” on the screen.
Press the “Up” and “Down” arrows repeatedly until you see “SOUND” on the screen in parentheses.
Press the “E” button to enter the “SOUND” mode.
Press the “E” button to enter the “Sound Mode” setting.
Press the “Up” and “Down” arrows to cycle through the 4 built-in Sound Modes.
Press the “E” button to confirm the selection.
Press the “Up” and “Down” arrows to highlight the “Sens” setting.
Press the “E” button to enter the Sensitivity setting for the Sound Modes.
Press the “Up” and “Down” arrows to cycle through the Sensitivity values 1-100 (1 being the least sensitive, 100 being the most sensitive)
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to highlight the “Color” setting in the Sound Mode.
Press the “E” button to enter the “Color” setting in the Sound Mode.
Press the “Up” and “Down” arrows to cycle through the values 0 to 49 for the different color values.
Press the “E” button to confirm your selection.

HSI Mode:

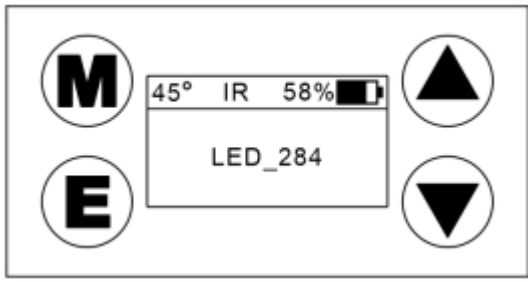
To set the Electro T5 in HSI Mode, follow the instructions below:
Press the “M” button repeatedly until you see “MODE” on the screen.
Press the “Up” and “Down” arrows repeatedly until you see “HSI” on the screen in parentheses.
Press the “E” button to enter the “HSI” mode.
Press the “E” button to edit the DIM value.
Use the “Up” and “Down” arrows to select the DIM Value between 0-255. (0 being the lowest, 255 being the highest)
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to highlight the “HUE” setting.
Press the “E” button to enter the “HUE” setting in HSI Mode.
Press the “Up” and “Down” arrows to select the HUE Value between 0-360. (0 being the lowest, 360 being the highest.
Press the “E” button to confirm your selection.
Press the “Up” and “Down” arrows to highlight the “STA” setting.
Press the “E” button to enter the “STA” setting.
Press the “Up” and “Down” arrows to select the STA Value between 0-100. (0 being the lowest, 100 being the highest)
Press the “E” button to confirm your selection.

Lee Color Mode:

To set the Electro T5 in Lee Color Mode, follow the instructions below:
Press the “M” button repeatedly until you see “MODE” on the screen.
Press the “Up” and “Down” arrows repeatedly until you see “Lee Color” on the screen in parentheses.
Press the “E” button to enter the “Lee Color” mode.
Press the “E” button to edit the DIM value.
Use the “Up” and “Down” arrows to select the DIM Value between 0-255. (0 being the lowest, 255 being the highest)
Press the “E” button to confirm your selection.

*Please note, confirming yes will reset your Electro T5 back to Factory Default Settings.

Mobile APP Control Mode Settings (WIFI)



Please follow these steps to connect to the Wi-Fi and set up the LED lamp:

1. Locate the "WIFI" menu in the “MODE” Selection and press "ENTER" to activate the Wi-Fi function.
2. The screen will display "Led_XXX," which is the Wi-Fi address of the light fixture.
3. Scan the provided QR code to download and install the "LED LAMP" app on your mobile device.
4. On your phone, access the Wi-Fi settings and search for the Wi-Fi address starting with "LED," such as "LED-XXX." Select this network to connect.
5. Open the "LED LAMP" app on your phone. Once the connection is successful, you will be able to control the light fixture through the app.

Host/Guest:

For detailed instructions, please see page 41 on how to set Master/Slave for the Electro T5’s.

To set the Electro T5 to Host/Guest Mode, please follow the instructions below:

Press the “M” button repeatedly until you see the “HOST/GUEST” selection on the screen.

Use the “Up” and “Down” arrows to cycle through the Host or Guest options.

Press the “E” button to confirm your selection.

Wireless DMX:

To turn the Wireless DMX Settings On for the Electro T5, please see the following instructions:

Press the “M” button repeatedly until you see “Wireless DMX” on the screen.

Press the “Up” and “Down” buttons to cycle through the different options (On, Off, Reset, Connect)

Press the “E” button to confirm your selection.

“On” will turn on the Wireless DMX setting.

“Off” will turn the Wireless DMX setting off.

“Reset” will reset the connection for the Electro T5 back to default.

“Connect” will make the Electro T5 attempt to connect to any available device nearby.

Power:

To set the Electro T5 into Power Saving Mode, please see the following instructions:

Press the “M” button repeatedly until you see “POWER” on the screen.

Press the “Up” and “Down” arrows repeatedly to cycle through the different values (25%, 50%, 75%, and 100%)

Press the “E” button to confirm your selection.

Note: Lowering the percentage will lower the overall brightness of the fixture. Doing this will also increase the battery life of your current session.

Information:

To see the current information on the Electro T5 fixture, please see the following instructions:

Press the “M” button repeatedly until you see “INFORMATION” on the screen.

Press the “Up” and “Down” arrows repeatedly to cycle through the options.

This will display the current firmware version (v1.x)

Or

This will display the “Current Time” that the light has been on for this session in Hours, Minutes, and Seconds (xxH, xxM, xxS)

IR:

To set the IR setting on for the Electro T5, please see the following instructions:

Press the “M” button repeatedly until you see “IR” on the screen.

Press the “Up” and “Down” arrows repeatedly to cycle through the “On” or “Off” options.

Press the “E” button to confirm your selection.

Note: Setting the “On” option will allow the included IR remote to be used with the Electro T5 fixture. Setting the “Off” option will not allow the IR remote to be used with the Electro T5 fixture.

Menu Lock:

To lock the Menu on the Electro T5, please see the following instructions:

Press the “M” button repeatedly until you see the “MENU LOCK” on the screen.

Press the “Up” and “Down” buttons repeatedly to cycle through the “ON” or “OFF” selections.

Press the “E” button to confirm your selection.

Note: Once the screen turns off, the screen will lock, to unlock, simply press and hold the “DOWN” button for 5 seconds to unlock it. A small Lock icon will appear on the screen and a countdown will begin that shows how many seconds are left to hold onto the “DOWN” button before it unlocks.

Back Light:
Press the “M” button repeatedly until you see “Back Light” on the screen.
Press the “Up” and “Down” arrows to cycle through the different time selections on when you will want the screen to turn off when the Electro T5 is not in use. (10s, 30s, and 60s)
Press the “E” button to confirm your selection.

Factory Reset:
Press the “M” button repeatedly until you see “Factory Reset” on the screen.
Press the “Up” and “Down” arrows to cycle through the options (No, Yes*)
Press the “E” button to confirm your selection.

DMX SET UP

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

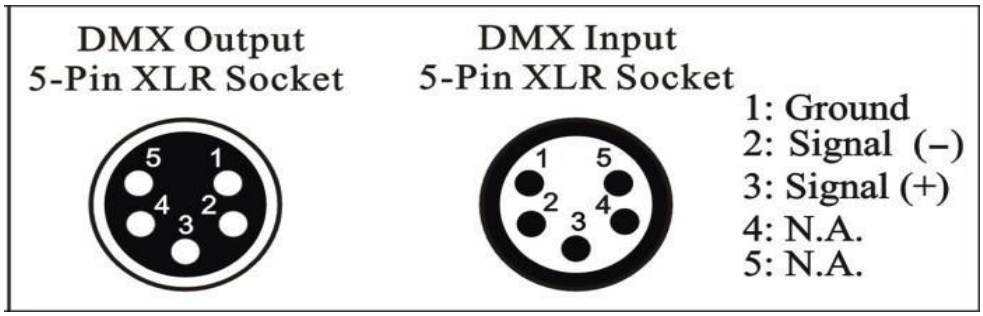
DMX Linking: DMX is a language allowing all makes and models of different manufacturers to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, try to use the shortest cable path possible when linking several DMX fixtures. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example, a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line: at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation): This unit can be controlled via DMX512 protocol. The DMX address is set on the rear panel of the unit. Your unit and your DMX controller require a standard 5-pin XLR connector for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male XLR connector at one end and a female XLR connector at the other. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: Be sure to follow the diagram below when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come into contact with the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behavior.

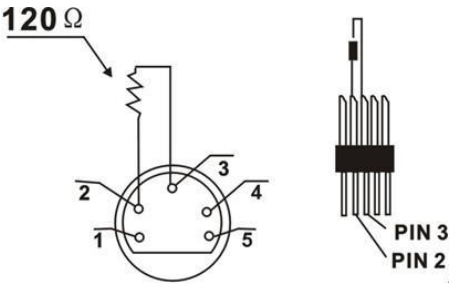
DMX-512 CONTROL CONNECTION

Connect the provided male side of the XLR cable to the female XLR output of your controller and the female side of the XLR cable to the male XLR input of the device. You can connect multiple devices together in a serial fashion. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



DMX-512 CONNECTION WITH DMX TERMINATOR

For installations where the DMX cable has to run over a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal caused by electrical noise. The DMX terminator is an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output (female) XLR socket of the last fixture in the chain. Please see illustrations below.



DEVICE DMX START ADDRESS SELECTION

All fixtures should be given a DMX starting address when using a DMX signal, so that the correct fixture responds to the correct control signals. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control information sent out from the DMX controller. The allocation of this starting address is achieved by setting the correct address number on the display located on the base of the device.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each fixture individually.

If you set the same address on all devices, all the devices will start to “listen to” the same

control signal from the same channel number. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set a different address, each unit will start to “listen to” the channel number you have set, based on the quantity of control channels of the unit. That means changing the settings of one channel will affect only the selected device.

In the case of the LED moving head, in 65 channel mode, you should set the starting address of the first unit to 1, the second unit to 66 (65 + 1), the third unit to 131 (65+ 66), and so on.

DMX SET UP

DMX ADDRESSING.

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to “listen” to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

For example, when this unit is operating in 2 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 3 (1 + 2), the third unit to 5 (1 + 2+2), and so on. See the chart below for more details.

DMX Channel Table

CCT-4CH Mode:

Channel	Control function	DMX Data	Detail description
1	Overall dimmer	000 - 255	Linear dimming from 0~100%
2	Strobe	000 - 010	NO FUNCTION
		011 - 255	From slow to fast (1HZ-20HZ)
3	CCT / 2500K~10000K	000 - 004	NO FUNCTION
		005 - 255	3 values for each color temperature
4	G/M	000 - 001	NO FUNCTION
		002 - 255	G/M value adjustment

HSI-4CH Mode:

Channel	Control function	DMX Data	Detail description
1	Overall dimmer	000 - 255	Linear dimming from 0~100%
2	Strobe	000 - 010	NO FUNCTION
		011 - 255	From slow to fast (1HZ-20HZ)
3	Hue	000 - 004	NO FUNCTION
		005 - 255	Hue 0~360 degrees
4	Saturation	000 - 255	0~100 color saturation

CCT/HSI-6CH Mode:

Channel	Control function	DMX Data	Detail description
1	Overall dimmer	000 - 255	Linear dimming from 0~100%
2	Strobe	000 - 010	NO FUNCTION
		011 - 255	From slow to fast (1HZ-20HZ)
3	Hue	000 - 004	NO FUNCTION
		005 - 255	Hue 0~360 degrees
4	Saturation	000 - 255	0~100 color saturation
5	CCT / 2500K~10000K	000 - 004	NO FUNCTION
		005 - 255	3 values for each color temperature
6	G/M	000 - 001	NO FUNCTION
		002 - 255	G/M value adjustment

16Bit-13CH Mode:

Channel	Control function	DMX Data	Detail description
1	Overall dimmer	000 - 255	Linear dimming from 0~100%
2	Overall dimmer 16bit	000 - 255	Linear dimming from 0~100%
3	Strobe	000 - 010	NO FUNCTION
		011 - 255	From slow to fast (1HZ-20HZ)
4	Red	000 - 255	Linear dimming from 0~100%
5	Red 16bit	000 - 255	Linear dimming from 0~100%
6	Green	000 - 255	Linear dimming from 0~100%
7	Green 16bit	000 - 255	Linear dimming from 0~100%
8	Blue	000 - 255	Linear dimming from 0~100%
9	Blue 16bit	000 - 255	Linear dimming from 0~100%
10	White	000 - 255	Linear dimming from 0~100%
11	White 16bit	000 - 255	Linear dimming from 0~100%
12	Warm white	000 - 255	Linear dimming from 0~100%
13	Warm white 16bit	000 - 255	Linear dimming from 0~100%

RGBCW+S-7CH Mode:

Channel	Control function	DMX Data	Detail description
1	Overall dimmer	000 - 255	Linear dimming from 0~100%
2	Strobe	000 - 010	NO FUNCTION
		011 - 255	From slow to fast (1HZ-20HZ)
3	Red	000 - 255	Linear dimming from 0~100%
4	Green	000 - 255	Linear dimming from 0~100%
5	Blue	000 - 255	Linear dimming from 0~100%
6	White	000 - 255	Linear dimming from 0~100%
7	Warm white	000 - 255	Linear dimming from 0~100%

Macro-12CH Mode:

Channel	Control function	DMX Data	Detail description
1	Overall dimmer	000 - 255	Linear dimming from 0~100%
2	Strobe	000 - 010	NO FUNCTION
		011 - 255	From slow to fast (1HZ-20HZ)
3	Static macro	000 - 010	NO FUNCTION
		011 - 255	9 values for each color
4	Macro background color	000 - 016	NO FUNCTION
		017 - 255	17 values for each color
5	Macro background color brightness	000 - 255	Linear dimming from 0~100%
6	Macro	000 - 010	NO FUNCTION
		011 - 214	68 auto macro effects, 3 values for each macro effect
		215 - 220	All auto macro effect
		221 - 228	Sound control mode 1
		229 - 236	Sound control mode 2
		237 - 244	Sound control mode 3
		245 - 255	Sound control mode 4
7	Macro speed	000 - 255	From slow to fast
8	Red	000 - 255	Linear dimming from 0~100%
9	Green	000 - 255	Linear dimming from 0~100%
10	Blue	000 - 255	Linear dimming from 0~100%
11	White	000 - 255	Linear dimming from 0~100%
12	Warm white	000 - 255	Linear dimming from 0~100%

Pix8-40CH Mode:

Channel	Control function	DMX Data	Detail description
1	Pix1-- Red	000 - 255	Linear dimming from 0~100%
2	Pix1-- Green	000 - 255	Linear dimming from 0~100%
3	Pix1-- Blue	000 - 255	Linear dimming from 0~100%
4	Pix1-- White	000 - 255	Linear dimming from 0~100%
5	Pix1-- Warm white	000 - 255	Linear dimming from 0~100%
…	…	……	…
36	Pix8-- Red	000 - 255	Linear dimming from 0~100%
37	Pix8-- Green	000 - 255	Linear dimming from 0~100%
38	Pix8-- Blue	000 - 255	Linear dimming from 0~100%
39	Pix8-- White	000 - 255	Linear dimming from 0~100%
40	Pix8-- Warm white	000 - 255	Linear dimming from 0~100%

Pix16-80CH Mode:

Channel	Control function	DMX Data	Detail description
1	Pix1-- Red	000 - 255	Linear dimming from 0~100%
2	Pix1-- Green	000 - 255	Linear dimming from 0~100%
3	Pix1-- Blue	000 - 255	Linear dimming from 0~100%
4	Pix1-- White	000 - 255	Linear dimming from 0~100%
5	Pix1-- Warm white	000 - 255	Linear dimming from 0~100%
…	…	……	…
76	Pix16- Red	000 - 255	Linear dimming from 0~100%
77	Pix16-- Green	000 - 255	Linear dimming from 0~100%
78	Pix16-- Blue	000 - 255	Linear dimming from 0~100%
79	Pix16-- White	000 - 255	Linear dimming from 0~100%
80	Pix16-- Warm white	000 - 255	Linear dimming from 0~100%

Pix32-160CH Mode:

Channel	Control function	DMX Data	Detail description
1	Pix1-- Red	000 - 255	Linear dimming from 0~100%
2	Pix1-- Green	000 - 255	Linear dimming from 0~100%
3	Pix1-- Blue	000 - 255	Linear dimming from 0~100%
4	Pix1-- White	000 - 255	Linear dimming from 0~100%
5	Pix1-- Warm white	000 - 255	Linear dimming from 0~100%
…	…	……	…
156	Pix32- Red	000 - 255	Linear dimming from 0~100%
157	Pix32-- Green	000 - 255	Linear dimming from 0~100%
158	Pix32-- Blue	000 - 255	Linear dimming from 0~100%
159	Pix32-- White	000 - 255	Linear dimming from 0~100%
160	Pix32-- Warm white	000 - 255	Linear dimming from 0~100%

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

CLEANING

Frequent cleaning is recommended to ensure 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 regularly with a soft cloth to avoid dirt/debris accumulation.

NEVER use alcohol, solvents, or ammonia-based cleaners.

MAINTENANCE

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

Please refer to the following points during routine inspections:

A. A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.

B. Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.

C. 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).

D. Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.

SOFTWARE UPDATES

For software updates, please contact JMAZ service to obtain the latest firmware and detailed instructions. Refer to the Introduction section of this manual for contact information.

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