

Lumino Ground Static White Lumino Ground RGBW Combined



INSTALLATION GUIDE

Important Note:

This installation guide is intended for reference purposes only. All installations should comply with local laws, regulations, and site-specific conditions. The recommendations provided are general guidelines and may require adjustments based on the actual site situation. Always consult a qualified professional for final installation decisions.

INSTALLATION INSTRUCTIONS

Lumino Ground Static White and RGBW

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WARNING:

- This product must be installed according to national and local electrical codes by a qualified individual familiar with the construction, operation, and associated risks.
- Failure to follow the installation instructions may result in serious injury or death.
- Disconnect power before installation or maintenance to avoid electrical shock.
- Do not exceed the rated voltage of the fixture.
- Do not install if the fixture, parts, or connectors are damaged.
- The fixture is rated IP67 and is suitable for outdoor inground applications, but **must not** be submerged in standing water beyond its ingress protection rating.
- Ensure proper drainage around the installation site to avoid water pooling or flooding that may compromise performance.

CAUTION: Unauthorized modifications or repairs will void the warranty.

MAXIMUM LOAD CAPACITY PER RUN				
Series	Lumino Ground Static White		Lumino Ground RGBW Combined Source	
Input Voltage Range	100-277V, 50/60Hz		100-277V, 50/60Hz	
Max Power	18W (500mm), 36W (1000mm)		18W (500mm), 36W (1000mm)	
Power Factor	≥ 0.9 (@100V)		≥ 0.9 (@100V)	
Max. Power Linking 500mm 1000mm	US (100V)	EU (220V)	US (100V)	EU (220V)
	58 nos.	105 nos.	58 nos.	105 nos.
	30 nos.	55 nos.	30 nos.	55 nos.
Max run length is for interlink and leading cables (Fixtures not included)	40 Meters @US 60 Meters @EU		40 Meters @US 60 Meters @EU	

Remark:

- Please be aware that mounting screws and hex-head bolts are not included with your purchase. Installers will need to supply these items for installation. We recommend using stainless steel screws to prevent corrosion.
- The actual maximum daisy chain limit may vary based on the gauge of the leading cable and the specific installation conditions. The values provided are recommended guidelines and should be considered as such. Please ensure that all installations comply with local electrical codes and safety standards.

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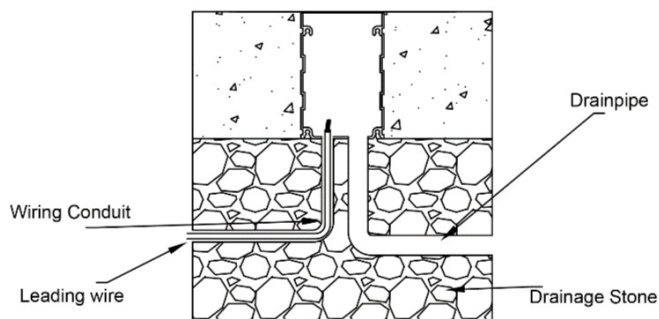
IMPORTANT:

1. **Pre-installation:** This phase includes excavation, conduit installation, and groundwork preparation, which can be handled by construction workers.
2. **Installation:** This phase involves cable pulling, connections, and fixture setup, which should only be performed by qualified electrical personnel.

HAREWARE INSTALLATION

STEP 1) Prepare ground:

- Prepare ground hole for the recessed mounting sleeve according to the dimension of each module.
- Proper drainage piping should be prepared for hard ground.

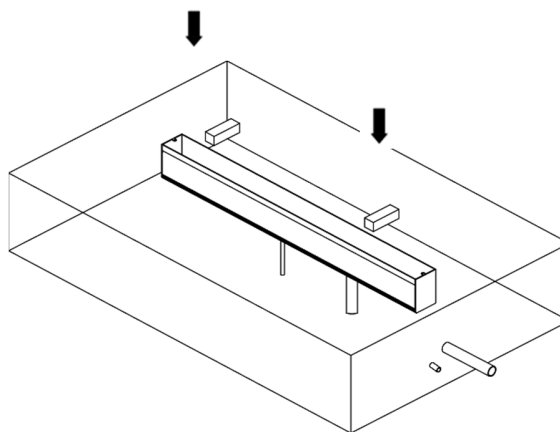


STEP 2) Test the drainage

Ensure proper drainage by verifying that the mounting box's water capacity drains completely within 30 minutes before installation.

STEP 3) Stabilize Mounting Sleeve

Insert the Acrylic Support Insert into the mounting sleeve to maintain its shape and prevent deformation during the concrete pouring process.



INSTALLATION INSTRUCTIONS

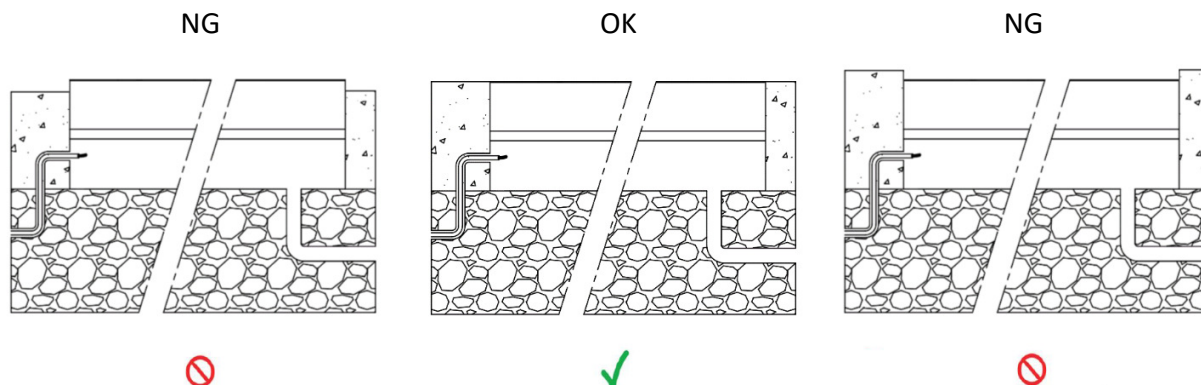
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STEP 4) Level the mounting sleeve

Recessing mounting sleeve must be installed on a level surface to prevent water collecting or creating a hazard.

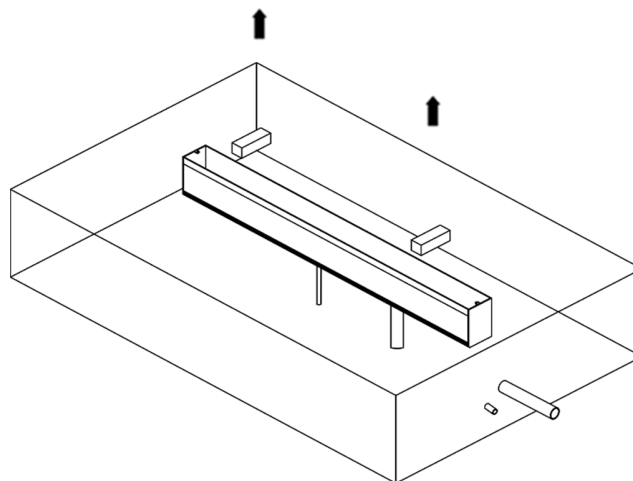


STEP 5) Pour the Material (Concrete):

Before pouring the filling material, conduct a thorough final inspection. Verify that the mounting sleeve is level and stationary. Neglecting to ensure the box is securely fixed may lead to a failed installation and will void the warranty.

STEP 6) Remove the Acrylic Support Insert

Once the concrete has fully cured, carefully remove the Acrylic Support Insert from the mounting sleeve to prepare for fixture installation.



INSTALLATION INSTRUCTIONS

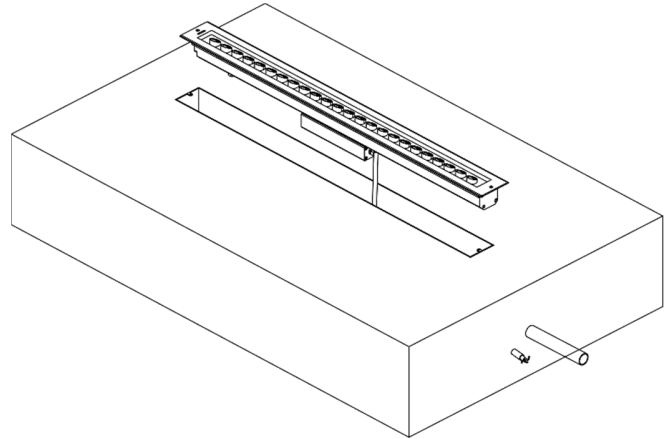
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STEP 7) Electrical Cable Routing and Connection

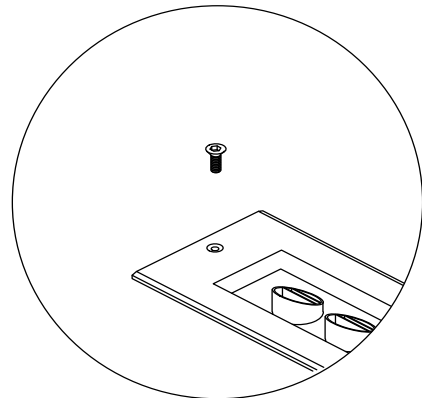
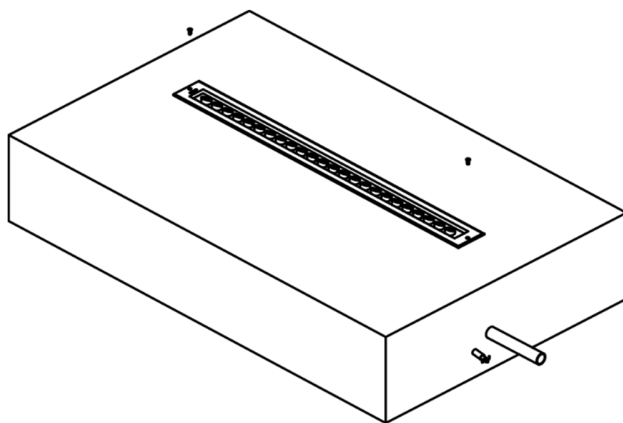
Guide the electrical cable through the conduit or connect it to the incoming cables outside the mounting box. Once the connections are complete, organize and secure the cable neatly inside the box.



STEP 8) Secure the Fixture

Use the through-mounting holes on both ends of the stainless steel mounting plate to attach the fixture to the mounting sleeve. Ensure that stainless steel screws are used to prevent corrosion.

Remark: Take caution while placing the luminaire into the mounting box, ensuring that the cabling is not caught or trapped. Ensure that the fitting trim sits flush with the ground for a seamless appearance.



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WARNING:

- Ensure the **Lumino Ground** is properly earthed, and the AC power supply is equipped with a circuit breaker or fuse, ground fault protection, and a device to disconnect power for servicing or when the fixture is not in use.
- Disconnect all cables and the fixture from the power source completely before performing any maintenance tasks.
- Implement measures to prevent the accidental reconnection of power during maintenance.
- Confirm that the voltage and frequency specified on the product label match the local mains power supply before turning on the fixture.

IMPORTANT:

- All **Lumino Ground Static White** models include a pre-installed power cable tail, suitable for direct connection to mains power.
- External connections must be enclosed in waterproof junction boxes or as required by local regulations, laws, or codes.
- Cable ends on **Lumino Ground** fixtures should be kept free from water or moisture, as the cooling process can create a vacuum that may draw moisture along the cable into the fixture.
- Ensure there is sufficient slack in the cable during installation to allow the fixture to be easily lifted for servicing without disconnecting the cables.

Wire Identification Schemes Table Static White:

Cable	Function	Core(US)	Wire Size	Core(EU)	Wire Size
Power (ON/OFF and TRIAC)	L (live)	Black	16AWG	Brown	1.3mm ²
	N (Neutral)	White	16AWG	Blue	1.3mm ²
	GND (Earth)	Green	16AWG	Yellow/Green	1.3mm ²
Power and Data Power Combined (0-10V and DALI)	L (live)	Black	16AWG	Brown	1.3mm ²
	N (Neutral)	White	16AWG	Blue	1.3mm ²
	GND (Earth)	Green	16AWG	Yellow/Green	1.3mm ²
	DIM+	Purple	22AWG	Purple	0.3mm ²
	DIM-	Pink	22AWG	Grey	0.3mm ²
	N/A	Yellow	22AWG	Yellow	0.3mm ²

INSTALLATION INSTRUCTIONS

Lumino Ground Static White and RGBW



WARNING (RGBW Combined):

- Ensure the **Lumino Ground RGBW** fixture is earthed, and the AC power supply includes a circuit breaker, ground fault protection, and a disconnect device for servicing or when not in use. Before connecting DMX cables, ensure all wiring meets DMX standards to prevent communication issues or damage.
- Disconnect the power supply and DMX signal entirely before any maintenance or troubleshooting.
- Verify that voltage, frequency, and DMX settings match the product label and local mains supply before powering on the fixture.
- Confirm DMX address and control settings are accurate to prevent unintended lighting behavior.
- For DMX networks, ensure proper termination to avoid signal interference or reflections. (DMX Terminator)

Wire Identification Schemes Table (DMX or RDM):

Cable	Function	Core(US)	Wire Size	Core(EU)	Wire Size
Power and Data Power Combined	L (live)	Black	16AWG	Brown	1.3mm ²
	N (Neutral)	White	16AWG	Blue	1.3mm ²
	GND (Earth)	Green	16AWG	Yellow/Green	1.3mm ²
	DMX+	Purple	22AWG	Purple	0.3mm ²
	DMX -	Pink	22AWG	Grey	0.3mm ²
	DMX GND	Yellow	22AWG	Yellow	0.3mm ²

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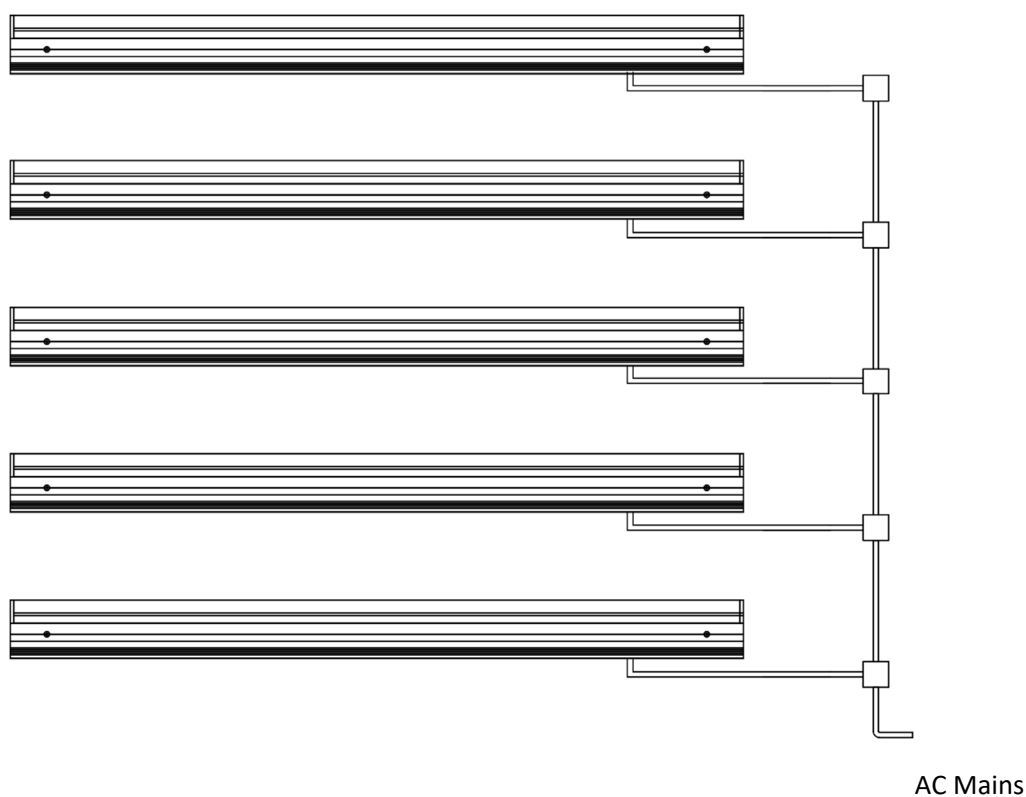
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CONNECTION SCHEMATIC

For daisy chain connections, please follow the illustrated diagram for proper connection. These fixtures are interconnected using a junction box.

IP68 Junction Box: (Prepared by customer)

A waterproof connection of at least IP68 must be established. When it comes to the junction box, we strongly advise using a suitable silicone gel to ensure effective sealing of the electrical connections within the box.



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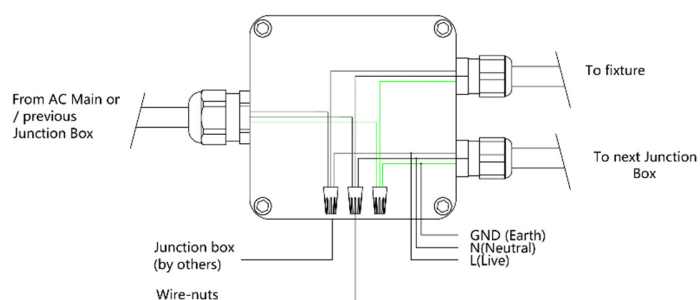
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WIRING DETAILS (STATIC WHITE):

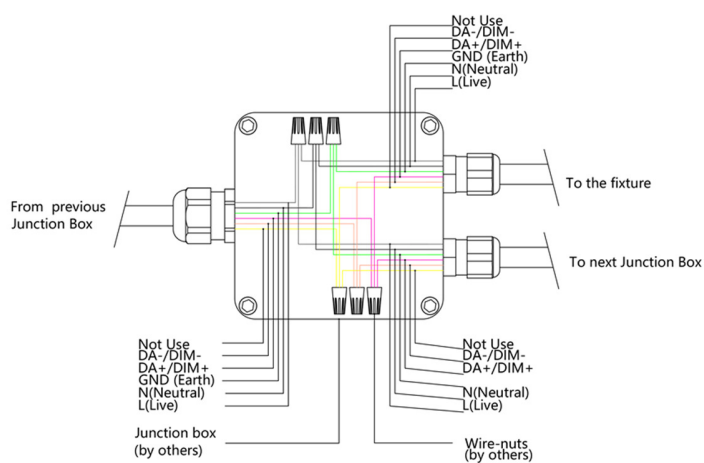
Static White Wiring (ON/OFF, TRIAC) Schematic:

DAISY CHAIN LAYOUT (FIRST OR MIDDLE OF RUN)



Static White Wiring (0-10V, DALI) Schematic

DAISY CHAIN LAYOUT (MIDDLE OR END OF RUN)



Lumino Ground Static White and RGBW

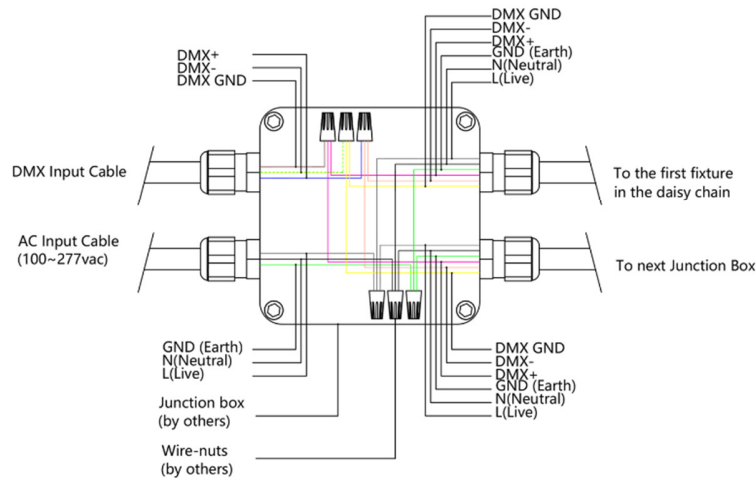
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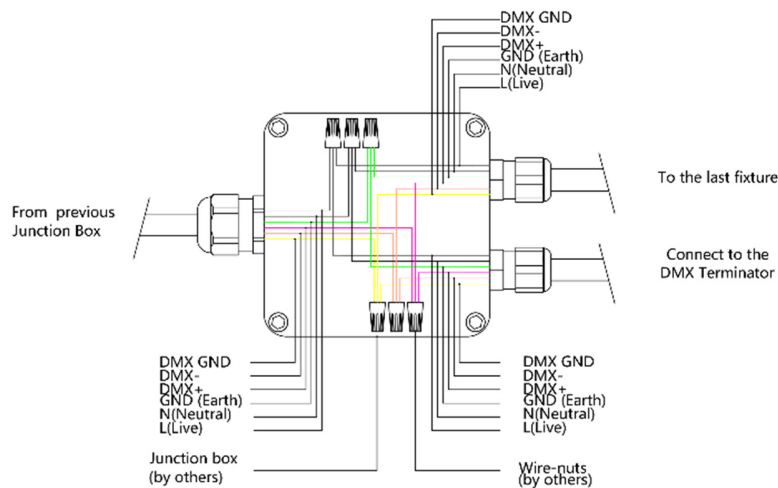
WIRING DETAILS (RGBW):

RGBW Wiring (DMX, RDM) Schematic:

DAISY CHAIN LAYOUT (FIRST OF RUN)



DAISY CHAIN LAYOUT (MIDDLE OR END OF RUN)



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INSTALLATION COMPLETION CHECKLIST

Checklist Category	Task	Completed (✓)
General Preparation	Verify all inground linear lighting components are present and undamaged (fixtures, sleeves, cables, etc.).	
	Confirm the AC power supply matches the voltage and frequency specified on the product label.	
	Ensure the circuit breaker or fuse, ground fault protection, and power disconnect device are installed.	
Mounting and Sleeve Preparation	Check that the mounting sleeves are installed correctly and remain undamaged after concrete pouring.	
	Ensure the fixtures are securely attached to the mounting sleeve using the mounting plate and screws.	
Drainage and Sealing	Test drainage by confirming the mounting box drains its water capacity completely within 30 minutes.	
	Verify the cable gland or conduit connection is tightly sealed to prevent water leakage.	
Electrical Connections	Confirm all power and data cables are securely connected and meet the recommended wiring standards.	
	Verify proper grounding of the fixture for safety and compliance.	
	Ensure DMX, 0-10V, DALI cables (if applicable) are terminated correctly to prevent signal interference.	
Safety and Testing	Confirm that power is disconnected before performing any adjustments or maintenance.	
	Test the installation for proper functionality, including DMX addressing and control settings (if applicable).	
	Inspect for any exposed wiring, loose connections, or mechanical stress on cables.	
Final Inspection	Ensure setback distances are applied correctly for optimal lighting performance.	
	Verify that the installation complies with all national and local electrical codes.	