

Westgate Mfg. ULS Series - LED Flexible Sheet Installation Guide

Product Models:

ULS-2448-35W-30K (3000K)

ULS-2448-35W-40K (4000K)

ULS-2448-35W-50K (5000K)

ULS-2448-70W-WT (White Tuning)

General Specifications:

Voltage: 24V DC (Requires LED Driver)

Wattage: 35W per sheet (70W for White Tuning)

Sheet Dimensions: 24cm x 48cm (9.45" x 18.90")

IP Rating: IP20 (Indoor use only)

Color Rendering Index: 90

Beam Angle: 120°

Operating Temperature: -4°F to 104°F

Warranty: 5 years

Installation Steps:

1. Preparation:

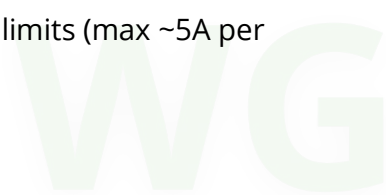
- Ensure the surface for mounting is clean, dry, and free from grease.
- For stone-backlit installations, use spacers (not included) to maintain appropriate spacing and prevent pressure on the LED sheets.

2. Mounting:

- Sheets come with pre-installed 3M double-sided adhesive tape.
- Carefully remove the protective film from adhesive tape.
- Firmly press the LED sheet onto the prepared mounting surface.

3. Wiring and Driver Selection:

- Each run should not exceed 3 sheets (approx. 3.72 sq ft) to maintain safe current limits (max ~5A per



run).

- Select a 24V DC LED driver with appropriate wattage capacity (total wattage of sheets x 1.2 for safety margin).

4. Wiring Guidelines:

- Connect sheets in parallel using 18-22 AWG wire.
- Maintain polarity (+ to +, - to -).

Voltage Drop and Wire Gauge Recommendations:

Max Run per Controller (White Tuning - ULS-2448-70W-WT):

Controller capacity: 190W max

Max sheets per controller: ~2 sheets (due to 70W per sheet)

Multiple controllers may be synchronized for larger installations.

Understanding "Runs":

A run consists of LED sheets connected directly to a single driver/controller.

Do not exceed the maximum wattage rating per driver/controller.

To extend beyond max run, add another driver/controller to create an additional run.

Calculating Transformer Requirements:

Total wattage = (Number of sheets) x (Wattage per sheet)

Transformer wattage requirement = Total wattage x 1.2 (20% safety margin)

Example: 10 sheets (35W each) = 350W total → Recommended transformer = 420W

Accessories (not included, required for proper installation):

24V DC LED Driver

18-22 AWG wiring

Surface spacers (recommended for stone applications)

Appropriate connectors for wire extensions

Controller for White Tuning (ULS-2448-70W-WT):

Required for adjusting the color temperature

WVG



Max load per controller: 190W

Multiple controllers needed for large installations (over 190W)

For questions or support:

Contact Westgate Mfg. at (877) 805-2252

Wire Gauge Table:

Wire Gauge (AWG)	Max Length (feet)	Max Current (A)
22	5 ft	3A
20	10 ft	5A
18	15 ft	8A

