**FLEXIBLE LED LIGHT SHEET | TW**

**ITEM #: AG1-24-TW SERIES (TUNABLE WHITE: 2700K-6500K)**

For the latest product updates, specifications, troubleshooting, product handling, installation, and integration advisories, visit www.evo-lite.com.

**ELECTRICAL**

- **Input Voltage**: 24 Volt DC - Constant Voltage
- **Power Consumption**: 11 W per sheet (8.65 W/ft², 93.1 W/m²), 0.013 watts per LED**
- **Wires**: 20 AWG 3 wire (Black wire (positive +), Yellow wire (2700K), White wire (6500K))
- **Connector**: Twelve integrated 3-pin connection blocks
- **Certification**: UL Listed (E495221), CE Compliant (EMC and LVD), RoHS Certified, IP65

**PHYSICAL**

- **Color Temperature**: 2700K ~ 6500K Tunable White
- **Contact Evo-Lite for custom color temperatures**
- **CRI**: 92+ for 2700K and 95+ 6500K
- **Light Output**: 1100 lumens per sheet
- **Mounting**: Screws can be used within circles marked on the sheet. Use mechanical fasteners when mounted vertically or suspended. 3M adhesive backing is a supplementary method.
- **Operating Temp.**: -22°F to 122°F (-30°C to 50°C)
- **Working Temp.**: 93°F (34°C)
- **Surface Temp.**: LED: 97°F (36°C), PCB: 90°F (32°C), Resistor: 93°F (34°C) (Measurements taken at ≥ 2 hours of operation)
- **Environment**: Wet location (IP65 rated)
- **Coverage**: 1.27 ft² (0.118 m²) per sheet / up to 10.18 ft² (0.94 m²) per 8 sheets
- **Cut/Fold Line Spacing**: 0.66” (16.767 mm) short axis / 0.661” (16.786 mm) long axis
- **Single Sheet Size**: 19.80” x 9.252” (503.5 mm x 235 mm)
- **Weight**: 5.0 oz (141 g) per sheet
- **Customization Options Available**: Pre-cut, pre-mounted, specific color temperatures, IP rating, sheet sizes and/or connector placement. Contact Evo-Lite with customization requests.

**Power Input Kit, SKU: AG1-24-TW-PIK** *(sold separately)*

Power Inputs Kits (PIK) are required for easy connection of up to 8 sheets combined to a low voltage power source (sold separately).

**FEATURES**

- **Field Customizable**: Maintains UL Listing when cut*
- **Full Integration Support**: Included
- **Unique Power Distribution Grid**: LED groups can be cut* from any part of the Light Sheet
- **Flexible/Foldable PCB**: Polyimide film substrate
- **Consistent Light Quality**: Tight ANSI bin control LEDs
- **LED Quantity/Density**: 840 SMD type 2835 LEDs per sheet 664 LEDs per ft² (7144 LEDs per m²)
- **Energy Efficiency**: 100 lumens per watt
- **Long Lifespan**: 50,000 + hours
- **Advanced 5-Year Warranty**: Included

*NEVER CUT AURAGAMI LIGHT SHEET(S) WHILE POWERED.

**POWER & CONTROLS**

Compatible with all control protocols via associated power and control components. Quality tested for low-end light output consistency across all LEDs. Please contact Evo-Lite for optimal solutions to fit your requirements.

**PRODUCT WIRING & CONTROL ADVISORY**

1. To retain UL Listing, use only with UL Listed or UL Recognized Class 2, LPS or LVLE power supply.
2. The Light Sheet’s integrated connection blocks have a 4 A capacity. Do not exceed the load capacity of these connection blocks in any configuration.
3. Our tunable white LEDs utilize separate warm and cool white channels for color mixing. 3rd party controls must account for proportional balancing of the two channels. Example: If Warm White = 100% ON then Cool White = OFF. If Warm White = 25% ON, then Cool White = 75% ON.
4. Allowing both channels to operate at 100% will double power consumption to 22 watts per sheet, therefore decreasing the total number of allowable interconnected sheets to 4 per UL/Class 2 guidelines.
5. To retain Class 2 compliance per UL regulations, do not exceed 96 watts interconnected (88 watts for eight sheets proportionally balanced). Best practices include allowing headroom for power supply longevity. Use only with Class 2 power supply.
6. To avoid visible brightness variances due to voltage drop, the total distance should not exceed 6.5 feet (2 meters) from the power source input to the farthest end of any interconnected sheet.
7. For optimal current flow through the interconnected sheets, connect adjacent Light Sheets with two sheet-to-sheet connection wires on each side.

**PACKING**

Each Auragami® Light Sheet has a full 3M® adhesive backing, long and short sheet-to-sheet connection wires, and protective bumpers with silicone adhesive backing. Light Sheets are sold as single sheets, boxes of four, and cartons of 40.

**PART LIGHT SHEET DESCRIPTION QTY**

<table>
<thead>
<tr>
<th>PART</th>
<th>LIGHT SHEET DESCRIPTION</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Auragami® Light Sheet (19.80” x 9.25” / 503.5 mm x 235 mm) with 3M® adhesive backing and 12 integrated connection blocks</td>
<td>1</td>
</tr>
<tr>
<td>B</td>
<td>20 AWG short sheet-to-sheet connection wires 2.08” (53 mm)</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>20 AWG long sheet-to-sheet connection wires 4.60” (117 mm)</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Protective bumpers with silicone adhesive backing</td>
<td>8</td>
</tr>
</tbody>
</table>

**POWER INPUT KIT (SOLD SEPARATELY: AG1-24-TW-PIK)**

- **PART ACCESSORY PACK (INCLUDED: AG1-24-TW-AP)**
- **PART POWER INPUT KIT (SOLD SEPARATELY: AG1-24-TW-PIK)**

**CONTACT**

www.evo-lite.com • info@evo-lite.com • 1-888-887-2980 • ©2022 EVO-LITE, LLC • 6240 W 54TH AVE., ARVADA, CO 80002 • V5–3422
### Measurements & Connector Locations

**Tunable White Light Sheet**

**Overall Sheet Size:** 19.800” x 9.252” (503.5 mm x 235 mm). Not to scale.

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**SPECIFYING AURAGAMI**

**Tunable White (TW)**

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>AG1-24-TW</td>
<td>2700K – 6500K Tunable White</td>
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</table>

**Other Available Options**

**Single Color White (SCW)**

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<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>AG1-24-27</td>
<td>2700K</td>
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<tr>
<td>AG1-24-30</td>
<td>3000K</td>
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<tr>
<td>AG1-24-35</td>
<td>3500K</td>
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<tr>
<td>AG1-24-40</td>
<td>4000K</td>
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<tr>
<td>AG1-24-53</td>
<td>5300K</td>
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</table>

**Dynamic Color (RGBW)**

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<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>AG1-24-RGBW</td>
<td>RGB + 5300K White</td>
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</tbody>
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**Auragami Customization Options**

Evo-Lite can customize the Auragami Light Sheet to meet your exact specifications. Minimum order quantities apply.

**Customize:**

- Specific color temperatures
- IP Ratings
- LED pitch and placement
- Connector type and placement
- Sheet size and shape
- Pre-cut custom shapes from standard sheets
- Pre-mounted sheets to quick install substrates
- Wattage / energy-efficiency
- Lumens / brightness
- PCB material type – flexible or rigid

Contact Evo-Lite with customization requests

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Note: This specifications sheet is specifically designed for Tunable White LED Sheets. Please consult our other specification sheets for Single Color White and RGBW Auragami LED Sheets.