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 (0.65 W/ft², 93.1 W/m²); 0.014 watts per LED
Wires: 20 AWG 5 wire (Black wire (positive), Red wire (Red LEDs), Green wire (Green LEDs), Blue wire (Blue LEDs), White wire (5300K))
Connector: Twelve integrated 5-pin connection blocks
Certification: UL Listed (E495221), CE Compliant (EMC and LVD), RoHS Certified, IP65

PHYSICAL

Color Temperature: RGB + 5300K, Contact Evo-Lite for custom color temperatures
CRI: 95+ for 5300K
Light Output: 658 lumens per sheet, 250 lumens (5300K LEDs only)
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 LIGHT SHEET DESCRIPTION

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: 800 SMD type 2835 LEDs per sheet
Energy Efficiency: 57.7 lumens per watt (all channels)
Long Lifespan: 50,000 + hours
Advanced 5-Year Warranty: Included

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. To retain Class 2 compliance per UL regulations, do not exceed 96 watts interconnected (88 watts for eight sheets). Best practices include allowing headroom for power supply longevity. Use only with Class 2 power supply.
4. 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.
5. 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.

POWER INPUT KIT, SKU: AG1-24-RGBW-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).

AURAGAMI® RGBW LIGHT SHEET

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. To retain Class 2 compliance per UL regulations, do not exceed 96 watts interconnected (88 watts for eight sheets). Best practices include allowing headroom for power supply longevity. Use only with Class 2 power supply.
4. 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.
5. For optimal current flow through the interconnected sheets, connect adjacent Light Sheets with two sheet-to-sheet connection wires on each side.

Auragami® Light Sheet (19.80” x 9.25” / 503.5 mm x 235 mm) with 3M® adhesive backing and 12 integrated connection blocks

<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>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PART</th>
<th>ACCESSORY PACK (INCLUDED: AG1-24-RGBW-AP)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>20 AWG short sheet-to-sheet connection wires 3.26” (83 mm)</td>
<td>2</td>
</tr>
<tr>
<td>C</td>
<td>20 AWG long sheet-to-sheet connection wires 5.86” (149 mm)</td>
<td>2</td>
</tr>
<tr>
<td>D</td>
<td>Protective bumpers with silicone adhesive backing</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PART</th>
<th>POWER INPUT KIT (SOLD SEPARATELY: AG1-24-RGBW-PIK)</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>20 AWG 5-conductor power input cable, 48” (1229.2 mm)</td>
<td>1</td>
</tr>
<tr>
<td>F</td>
<td>Wago same polarity, two port splicing connectors</td>
<td>5</td>
</tr>
<tr>
<td>G</td>
<td>Cable management clips with silicone adhesive backing</td>
<td>4</td>
</tr>
</tbody>
</table>
MEASUREMENTS & CONNECTOR LOCATIONS

RGBW LIGHT SHEET

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

Sheet & LED Height

Terminal Height

Bumper Height

SPECIFYING AURAGAMI

DYNAMIC COLOR (RGBW)

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>AG1-24-RGBW</td>
<td>RGB + 5300K White</td>
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OTHER AVAILABLE OPTIONS

SINGLE COLOR WHITE (SCW)

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

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

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