PRODUCT OVERVIEW // LED STICKS & TAPE

LumiStick™
LED Light Bar

CUSTOMIZABLE
// Custom made to any size up to 96" (243cm)
// Adjustable mounting angle with mounting brackets
// Multiple white light color temperatures + Tunable White, RGB, and static color styles available

QUICK INSTALLATION
// Easy installation with end bracket, magnet and C-Clip mounting options

ENERGY EFFICIENT
// High luminance with very low power consumption

WORRY FREE
// Long maintenance-free life
// Shock and vibration proof

WARRANTY
// Advanced 3-year warranty

LINEAR LIGHTING SOLUTION

The LumiStick (LED Light Bar) is easy to install, comes in 11", 22", 33", 44" and 55" standard lengths, and can be custom made up to 96" (243cm). LumiStick is available in multiple white light color temperatures plus Tunable White, RGB, and static color styles. The low profile light bars provide smooth even illumination without adding heat or UV radiation that can damage or fade merchandise. With their long useful life and low maintenance operation, LumiStick LED Light Bars meet or exceed the performance of conventional linear fluorescent fixtures; complete with lower installation, energy and maintenance costs. Plus they are easy to conceal, making them ideal for use in store fixtures, displays cases, jewelry cases, ceiling coves, china cabinets or for under / over cabinet lighting.

Slim Profile
The LumiStick™ design allows for easy integration into commercial and retail displays. Its simple design is also perfect for hidden recessed applications.

High Quality LEDs
LumiStick™ utilizes the same high quality LED technology as LumiSheet™, therefore color temperatures can be identically matched when used in conjunction with LumiSheet™.

Custom Lengths
Standard lengths are available but one of the key features of the LumiStick™ is the ability to create custom lengths at no additional charge.
### SPECIFICATIONS

#### ELECTRICAL

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>12 Volt DC - Constant Voltage; 24 Volt DC (Option)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Consumption</td>
<td>4.0 Watts / ft (single color LEDs)</td>
</tr>
<tr>
<td></td>
<td>5.0 Watts / ft (Tunable White LEDs)</td>
</tr>
<tr>
<td></td>
<td>5.0 Watts / ft (RGB LEDs)</td>
</tr>
<tr>
<td>Wire Size</td>
<td>20 AWG 2 wire (Standard LEDs)</td>
</tr>
<tr>
<td></td>
<td>20 AWG 3 wire (Tunable White LEDs)</td>
</tr>
<tr>
<td></td>
<td>22 AWG 4 wire (RGB LEDs)</td>
</tr>
<tr>
<td>Wiring</td>
<td>Each light bar should be connected to a power adaptor either directly or with a spider connector provided the total power consumption of all light bars connected is less than 80% rated wattage of the power adaptor.</td>
</tr>
<tr>
<td>Wire Length</td>
<td>Standard 5’ (1500mm) &amp; 10’ (3000mm). Custom options available up to 20’ (6000mm)</td>
</tr>
<tr>
<td>Connector</td>
<td>2.1/5.5mm barrel plug [Center pin +] (Standard/HO LEDs)</td>
</tr>
<tr>
<td></td>
<td>3-pin molex (Tunable White LEDs)</td>
</tr>
<tr>
<td></td>
<td>No connector (RGB LEDs)</td>
</tr>
<tr>
<td></td>
<td>Custom connection types available</td>
</tr>
<tr>
<td>Certification</td>
<td>UL Listed (E346146) &amp; UL Recognized (E362079)</td>
</tr>
</tbody>
</table>

#### PHYSICAL

**Color Temperature**

- Warm White (WW) ~3000K
- Soft White (SW) ~3500K
- Neutral White (NW) ~4100K
- Pure White (PW) ~5300K
- Ultra White (UW) ~6300K
- Tunable White (TW) 2700K - 6500K
- *Color Adjustable (CA) RGB

High CRI

≥ 90 available (12VDC only) in 3000K, 4100K, 5300K

Mounting Examples

- L2 - Magnets and C-Clips with screws
- L4 - Mounting brackets, magnets and C-Clips with screws

Operating Temperature

-30°C (-22°F) ~ +40°C (+104°F)

Light Angle

- Standard: 0°
- Option: 27°

Thickness

11.1mm

Minimum Size

3/4”W x 3”L x 7/16”H (19mm x 76mm x 11.1mm)

Maximum Size

3/4”W x 96”L x 7/16”H (19mm x 2434mm x 11.1mm)

Diffuser (W) x (H)

- DV1: 13/16”W x 1 3/16”H (20.6mm x 30.2mm)
- DV2: 13/16”W x 15/16”H (20.6mm x 23.8mm)

#### POWER & CONTROLS

Please contact Evo-Lite for optimal power & control solutions to fit your requirements

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* Tunable White CCT LED Control: Our Tunable White LEDs utilize separate warm and cool white channels for color mixing. 3rd party controls must account for proportional balancing/mixing of the two channels. Example: 2700K (Warm White) + 2700K 50% ON & 6500K 50% ON, 6500K = 2700K DOWN & 6500K 100% ON. Both channels cannot be allowed to operate at 100% simultaneously as the LED are not engineered to handle such high current.

** LED Kelvin temperatures listed in this literature have been derived from raw LED data. Actual Kelvin ratings can vary +/- 200K based upon environmental conditions including but not limited to inclusion into LGPs and the use of diffusion materials. A precise ANSI bin control system is utilized to help maintain LED conformity and to minimize variances.

† Static red, green, and blue color options also available.
### DIMENSIONS

<table>
<thead>
<tr>
<th>Length</th>
<th>LLMS12-300</th>
<th>LLMS12-580</th>
<th>LLMS12-860</th>
<th>LLMS12-1140</th>
<th>LLMS12-1420</th>
<th>LLMS12-CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td>11&quot; (280mm)</td>
<td>22&quot; (560mm)</td>
<td>33&quot; (560mm)</td>
<td>44&quot; (1118mm)</td>
<td>55&quot; (1397mm)</td>
<td></td>
</tr>
<tr>
<td>L2</td>
<td>11 7/8&quot; (300mm)</td>
<td>22 7/8&quot; (580mm)</td>
<td>33 7/8&quot; (860mm)</td>
<td>44 7/8&quot; (1140mm)</td>
<td>55 7/8&quot; (1434mm)</td>
<td></td>
</tr>
<tr>
<td>L3</td>
<td>12 7/16&quot; (316mm)</td>
<td>23 7/16&quot; (595mm)</td>
<td>34 7/16&quot; (875mm)</td>
<td>45 7/16&quot; (1.15cm)</td>
<td>56 7/16&quot; (1.43cm)</td>
<td></td>
</tr>
<tr>
<td>L4</td>
<td>13&quot; (330mm)</td>
<td>24&quot; (610mm)</td>
<td>35&quot; (610mm)</td>
<td>46&quot; (1168mm)</td>
<td>57&quot; (1448mm)</td>
<td></td>
</tr>
</tbody>
</table>

### LIGHT OUTPUT

<table>
<thead>
<tr>
<th>Part Number</th>
<th>LLMS12-300</th>
<th>LLMS12-580</th>
<th>LLMS12-860</th>
<th>LLMS12-1140</th>
<th>LLMS12-1420</th>
<th>LLMS12-CS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wattage</td>
<td>4W</td>
<td>8W</td>
<td>12W</td>
<td>16W</td>
<td>20W</td>
<td></td>
</tr>
<tr>
<td>* Lumen Output</td>
<td>272 (WW)</td>
<td>522 (WW)</td>
<td>816 (WW)</td>
<td>1088 (WW)</td>
<td>1360 (WW)</td>
<td>1660 (PW)</td>
</tr>
<tr>
<td></td>
<td>332 (PW)</td>
<td>664 (PW)</td>
<td>996 (PW)</td>
<td>1328 (PW)</td>
<td>1660 (PW)</td>
<td></td>
</tr>
<tr>
<td>End-to-End Length</td>
<td>13&quot; (330mm)</td>
<td>24&quot; (610mm)</td>
<td>35&quot; (889mm)</td>
<td>46&quot; (1168mm)</td>
<td>57&quot; (1448mm)</td>
<td></td>
</tr>
<tr>
<td>Efficacy</td>
<td></td>
<td></td>
<td></td>
<td>Warm White: 68 lm/W</td>
<td>Pure White: 83 lm/W</td>
<td></td>
</tr>
</tbody>
</table>

* WW = Warm White, PW = Pure White

### CUSTOMIZATION OPTIONS

<table>
<thead>
<tr>
<th>Series Number</th>
<th>End-to-End</th>
<th>Size</th>
<th>Color Temperature</th>
<th>Light Angle (Tilt)</th>
<th>Cable Length</th>
<th>Option Diffuser</th>
<th>Optional Magnet</th>
</tr>
</thead>
<tbody>
<tr>
<td>LMS12-300</td>
<td>LMS24-300</td>
<td>L2</td>
<td>With Magnets and C-Clips</td>
<td>3000K</td>
<td>00: 0° (standard) 27: 27°</td>
<td>WL1: 5' (1500mm) power cord with 2.1 (5.5mm) barrel plug</td>
<td>ND: No diffuser (standard)</td>
</tr>
<tr>
<td>LMS12-580</td>
<td>LMS24-580</td>
<td>L2</td>
<td>With Magnets and C-Clips</td>
<td>3500K</td>
<td></td>
<td>WL30: 10' (3000mm) power cord with 2.1 (5.5mm) barrel plug</td>
<td>DV1: With DV1 diffuser</td>
</tr>
<tr>
<td>LMS12-860</td>
<td>LMS24-860</td>
<td>L2</td>
<td>With Magnets and C-Clips</td>
<td>4100K</td>
<td></td>
<td></td>
<td>DV2: With DV2 diffuser</td>
</tr>
<tr>
<td>LMS12-1140</td>
<td>LMS24-1140</td>
<td>L2</td>
<td>With Magnets and C-Clips</td>
<td>5300K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-1420</td>
<td>LMS24-1420</td>
<td>L2</td>
<td>With Magnets and C-Clips</td>
<td>6300K</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-CS</td>
<td>LMS24-CS</td>
<td>L2</td>
<td>With Magnets and C-Clips</td>
<td>CCT: (2700K–6500K)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-300</td>
<td>LMS24-300</td>
<td>L4</td>
<td>With Mounting brackets, magnets and C-Clips</td>
<td>RGB Static red Static green Static blue</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-580</td>
<td>LMS24-580</td>
<td>L4</td>
<td>With Mounting brackets, magnets and C-Clips</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-860</td>
<td>LMS24-860</td>
<td>L4</td>
<td>With Mounting brackets, magnets and C-Clips</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-1140</td>
<td>LMS24-1140</td>
<td>L4</td>
<td>With Mounting brackets, magnets and C-Clips</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-1420</td>
<td>LMS24-1420</td>
<td>L4</td>
<td>With Mounting brackets, magnets and C-Clips</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LMS12-CS</td>
<td>LMS24-CS</td>
<td>L4</td>
<td>With Mounting brackets, magnets and C-Clips</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**LED Light Bar Accessories**

- Mounting Brackets with Screws
- Magnets with 3M Adhesive Backing
- C-Clips with Screws

**CONNECTOR OPTIONS**
Wiring: parallel wiring is recommended using our 2-way, 4-way or 6-way spider connectors.

Molded T Connector

2468 20 AWG
EVO-LITE, LLC
1393 S. Santa Fe Dr. Denver, CO 80223

MAIN PHONE: 303-996-2980
TOLL FREE: 1-888-887-2980
E-MAIL: info@Evo-Lite.com
URL: www.Evo-Lite.com

TERMS & CONDITIONS
Be sure to familiarize yourself with Evo-Lite’s Terms & Conditions. By ordering from Evo-Lite, the purchaser agrees to all Terms & Conditions.

PATENTS

LumiSheet™ PATENTS
USA: 7473022
CANADA: 2,626,448
JAPAN: 4427528
CHINA: ZL 200610085027.0
TAIWAIN: 312899
SINGAPORE: 141901
SOUTH AFRICA: 2008/03676
EUROPEAN UNION: 1,780,584
(Germany, UK, France, Italy, Spain, The Netherlands, Belgium, Sweden, Austria, Poland, Denmark, Greece, Ireland, Finland, Portugal, Czech Republic, Hungary, Romania, Slovakia, Bulgaria, Switzerland, Luxembourg, Slovenia, Turkey, Latvia)

V-CUTTER FOR AN LCD LIGHT GUIDE PANEL
USA: 6619175
JAPAN: 3500466
TAIWAN: 155175

A LIGHT GUIDE PANEL WITH SALANT LIGHT GUIDING PARTS
USA: US 7,018,087 B2

PIN KIT FOR V-CUTTER
KOREA: 10-0552589, 10-0557738, 10-0557741, 0540055, 0540053, 10-0772921, 10-0716543, 10-0565890, 10-0753963, 10-0643604
10-0476656, 10-0748074, 10-0748073, 10-0762741
USA: 6792842
JAPAN: 3463060
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