QUALITY SERVICE INNOVATION

# SunBrite™

## Modular LED Lightbars



RoHS Compliant

### Cost-Effective, High Performance Modular LED Lightbars!

The SunBrite family of Modular LED Lightbar technologies combine high-performance, ease-of-installation, flexibility and cost savings. Unlike many alternative lighting technologies, the SunBrite LED Lightbar can be installed with ease without the need to hire an electrician to open walls and install new wiring. Lumex's SunBrite™ LEDs are ideal for undercabinet, kitchen, bookshelf, cupboard, showcase, and accent and cove lighting applications.

**Features:**

- Available in lengths of 6, 12 and 24 inches for extendable design solutions
- Compatible connector cables available in 10", 20" or 40" lengths to connect Lightbars to desired length
- Mounting clips are available in standard format, 45˚ Angle format and Swivel format.
- A specially designed transformer is available to allow for simplified installation and immediate wall plug-in.
- For brightness control, a dimmer switch is available and effective on an entire line of connected light switches
- Ultra thin heat sink
- CE, UL, IP60, and RoHS compliant
- Warm, neutral and cool white colors are available in standard formats. Custom RGB technologies can also be created in any color.

LUMEX®

*Creating LED and LCD Solutions Together™*

Member of the *ITW* **Photonics Group**

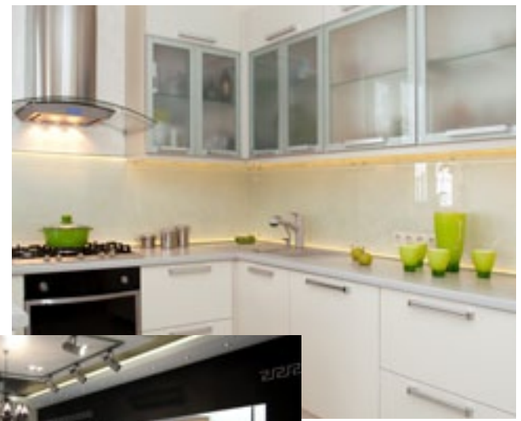
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# SunBrite™ Modular LED Lightbars by LUMEX

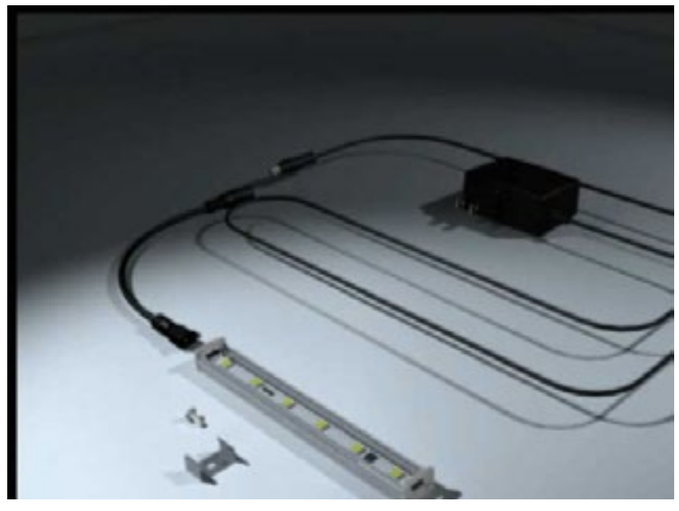
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## Recommended Applications

- Cabinet Lighting
- Undercabinet Lighting
- Kitchen Lighting
- Garage Lighting
- Bookshelf Illumination
- Cupboard Lighting
- Showcase Displays
- Cove Lighting







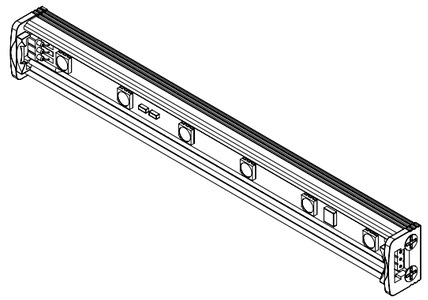
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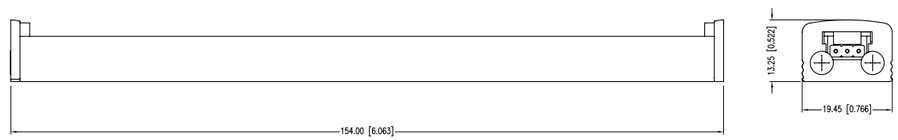


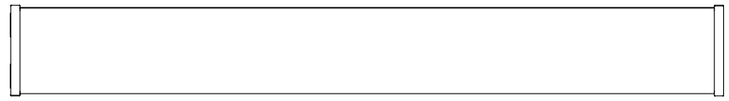
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## 6" LED Lightbars: SSP-LB06 series





| SunBrite™ Modular LED Lightbars | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PN | Emitted Color | # of LEDs | CCT (K) | Watts | Lumens | Length | Voltage | Angle |
| SSP-LB06MW024K03 | Warm White | 6 | 2600 ~ 3000 | 2.5 | 150 | 6" | 24 VDC | 120 |

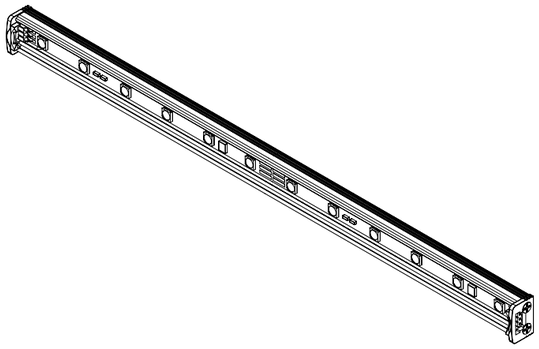
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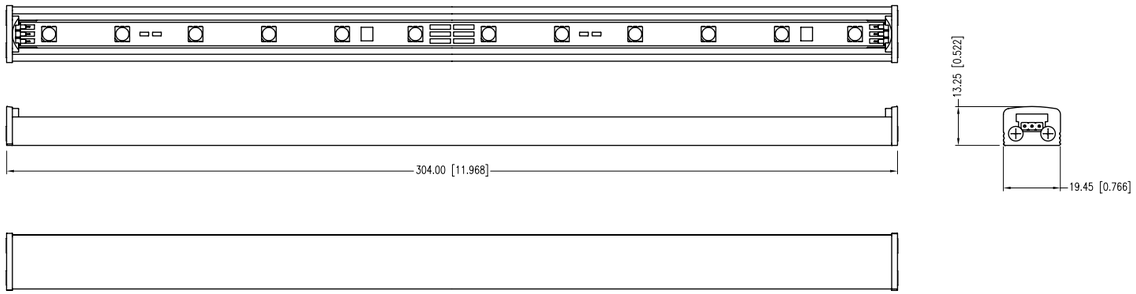
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## 12" LED Lightbars: SSP-LB12 series






| SunBrite™ Modular LED Lightbars | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PN | Emitted Color | # of LEDs | CCT (K) | Watts | Lumens | Length | Voltage | Angle |
| SSP-LB12UW024K05 | Cool White | 12 | 5000 ~ 6300 | 5 | 360 | 12" | 24 VDC | 120 |
| SSP-LB12UW024K03 | Cool White | 12 | 5000 ~ 6300 | 3.3 | 220 | 12" | 24 VDC | 120 |
| SSP-LB12NW024K05 | Neutral White | 12 | 3700 ~ 4300 | 5 | 300 | 12" | 24 VDC | 120 |
| SSP-LB12NW024K03 | Neutral White | 12 | 3700 ~ 4300 | 3.3 | 220 | 12" | 24 VDC | 120 |
| SSP-LB12MW024K05 | Warm White | 12 | 2600 ~ 3000 | 5 | 300 | 12" | 24 VDC | 120 |
| SSP-LB12MW024K03 | Warm White | 12 | 2600 ~ 3000 | 3.3 | 190 | 12" | 24 VDC | 120 |

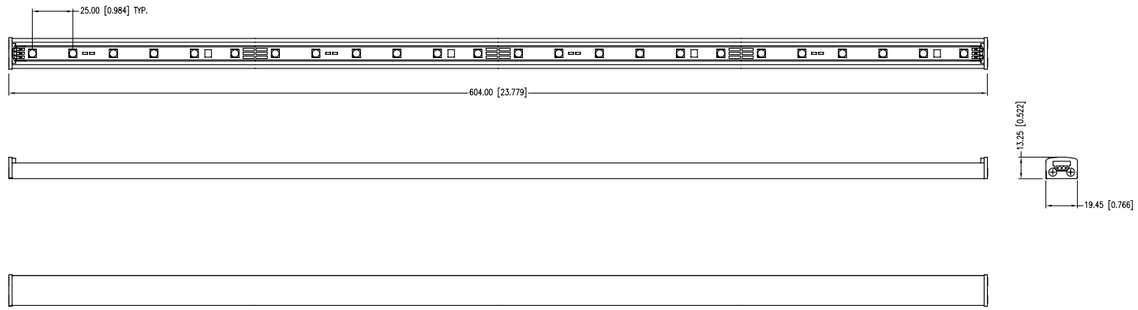


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## 24" LED Lightbars: SSP-LB24 series



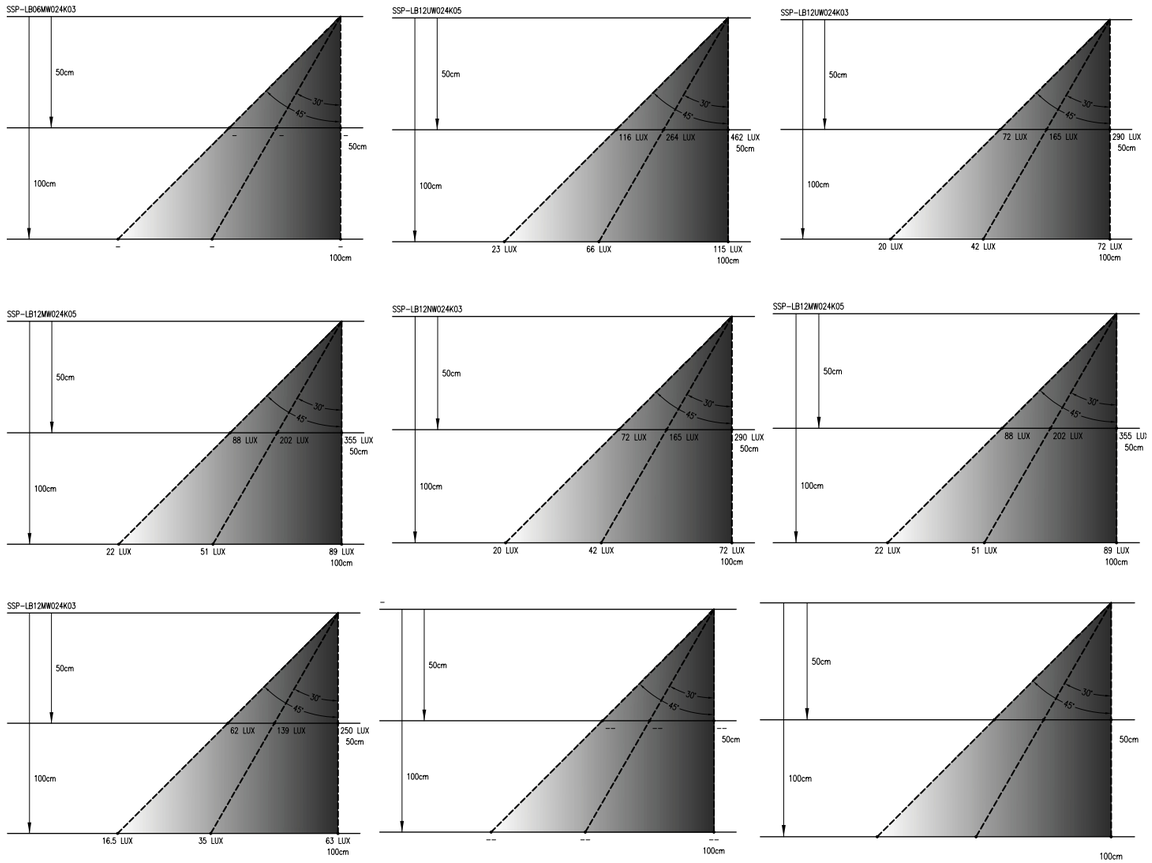



| SunBrite™ Modular LED Lightbars | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PN | Emitted Color | # of LEDs | CCT (K) | Watts | Lumens | Length | Voltage | Angle |
| SSP-LB24MW024K10 | Warm White | 24 | 2600 ~ 3000 | 10 | 600 | 24" | 24 VDC | 120 |
| SSP-LB24UW024K07 | Cool White | 24 | 5000 ~ 6300 | 6.6 | 440 | 24" | 24 VDC | 120 |

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## Illumination Charts






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## Recommended Accessories for SunBrite™ Modular LED Lightbars

| SunBrite P/N | Description |
|---|---|
| SSP-PW024 | 24 Watt Adapter Input 100~240 volt AC, output 24 volt DC / 1.0A |
| SSP-CA12 | 12" Power Line Connection Cable |
| SSP-CN10 | 10" Connection Cable Between Lightbars |
| SSP-CN0 | Lightbar to Lightbar Connector |
| SSP-CNU2 | U-Shape Jumper Between Lightbars |
| SSP-CN2CN | Cable to Cable Extension Joint |
| SSP-CNM0 | Multiple Cable to Cable Extension Joint |
| SSP-MTCF1 | Mounting Clip for Lightbar (standard format) |
| SSP-MTCF2 | Mounting Clip for Lightbar (45° Angle format) |
| SSP-MTCV1 | Mounting Clip for Lightbar (Swivel format) |
| SSP-DM0 | Set of Mini Touch Dimmer Switches |
| SSP-CADM12 | 12" Power Line Connection Cable for Dimmer Switch |

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## Installation Instructions

**Layout and Designing Requirements:**

Sunbrite™ Modular LED Lightbars are available in 3 different lengths, 6", 12" and 24" with power usage either 3.3 W./ft. or 5W./ft. The lightbars can be easily chained to create desired length. Customer should start the design by defining the following factors:

- length for each location
- brightness output
- power usage
- color temperature

Once these factors are defined, you can then begin to design how you want to chain the light bars together. Please keep in mind that total power usage when the light bars are chained together cannot exceed power output from power supply adaptor (for safe operation, recommend total power usage from chained lightbars to be 25% lower than output wattage from power supply adaptor).




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## Installation Instructions *continued...*

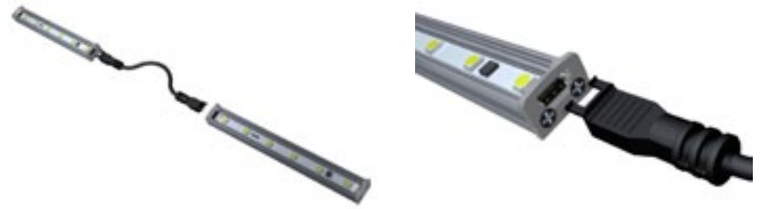
**Connection Lightbar to Lightbar:**

There are several methods to connect the lightbars. The followings are some examples:-

Method 1. Connecting light bars with bar-to-bar connector (SSP-CN0)



Method 2. Connecting light bars with connection cable (SSP-CN10)



Method 3. Connection light bars with U-Shape Jumper between bars (SSP-CNU2)



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## Installation Instructions *continued...*

Method 4. Connection light bars with cable-to-cable extension joint (SSP-CN2CN)



Method 5. Connection light bars with multiple cable-to-cable extension joint (SSP-CNM0)



**Connecting Lightbar to Power Adaptor (SSP-PW024):**

SunBrite™ Modular LED Lightbars can be connected to the power adaptor by using the power line connection cable (SSP-CA12) between the lightbar and the power adaptor.



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Installation Instructions *continued...*

**Using Mini-Touch Dimmer Switch in Connection with Lightbars:**

Note: In order to enable the dimming function, Mini Touch Dimmer Switch must be used in conjuction with SSP-CADM12, gray power line connection cable which come together as a set with dimmer switch.

a). Operation Description

1). On/Off: Use your finger to touch the sensor area shortly (single touch, ~0.5 seconds, see Fig.1)
2). Dimming: Continue to hold the finger on the sensor area. It will dim the lightbar brightness in a cycling pattern. Remove your finger when it reaches the desired brightness (see Fig.1).
3). Brightness Setting memory: The pervious selected brightness is stored until the adaptor plug is disconnected.

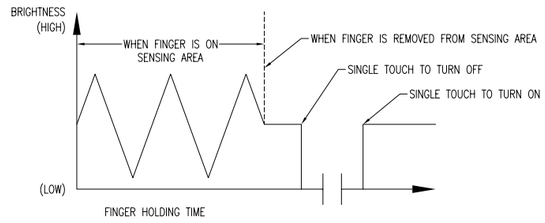



Fig. 1

b). System Configuration – Mini Touch Dimmer Switch can be installed at any place in a light bar chain or network. Several Scenarios are illustrated below:

Scenario 1. Dimmer at the "end" of chain



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## Installation Instructions *continued...*

**Using Mini-Touch Dimmer Switch in Connection with Lightbars:** *continued...*

Scenario 2. Dimmer at the "middle" of a chain



Scenario 3. Dimmer at the "beginning" of a chain



Scenario 4. Dimmer at a branching "network"





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## Installation Instructions *continued...*

**Mounting clips**

Lumex offer 3 styles of mounting clip options for the SunBrite™ Modular LED Lightbars. You can choose from standard-style mounting clips (SSP-MTCF1), 45 degree mounting clips (SSP-MTCF2), or swivel-style mounting clips (SSP-MTCV1).

Installation is simple. Just screw in the selected mounting clip to the area you want to install the lightbar. Then, snap the lightbar to the clips. We suggest installing the lightbars with one (1) mounting clip for every 6" distance.

Standard





45 Degree





Swivel





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