NEW LT SERIES
LED LINE LIGHT

The Market Highest Level of Uniformity and Brightness

Patent Pending

CCS Inc.
The Market Highest Level of Uniformity and Brightness

Realize both high uniformity and high brightness

The highest level of "Uniformity" *

In a comparison of uniformity with quartz rod light, the LT Series realizes higher uniformity. Greater uniformity enables more precise inspection.

Quartz rod light uniformity

LT Series uniformity

More than 4 times the "Brightness" *

In a comparison of brightness with quartz rod light, the LT Series realizes more than four times higher output. Greater output enables faster line speed.

Brightness comparison (quartz rod light vs. the LT Series)

Quartz rod light (600 mm) (180 W metal halide lamp)

LT-600SW

650,000 cd/m²

Stable brightness vs. Demand of longer life

Fluctuation over time  Change in radiance over time

Service life

Over 20,000 hours!

Calculated at 100% intensity and an ambient temperature of 25°C until light output drops to 50%.

Values are not guaranteed.

Various sizes available

We offer LT Series at lengths that are optimum to each application.

The emitting surface length is selectable in 100 mm increments from a minimum of 100 mm.

Emitting surface lengths can be ordered in 100 mm increments. Lengths from 100 mm to 1,800 mm make the LT Series suitable a wide variety of applications.

* According to our own research on line sensor lights as of March 2010.

* Under our own measurement environment.

* Data is for reference only and does not ensure product quality.

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An illumination structure suitable to each working environment

Inspection speed can be improved by narrowing the distance between rollers.

Making the optimum imaging possible

Transparent example

- Deflection is a concern...
- Greater space is required...
- Reduced deflection
- Faster inspection
- Space saving

Direct reflection example

- Close-up illumination possible
- Compact setup
- Space saving

Inspection is possible by mounting the camera at a narrow angle.

Transparent imaging

- Colored acrylic board
- Fish-eye defect
- Fish-eye clearly captured

Direct reflection imaging

- Metallic board
- Slight dent defect
- Slight dents accurately captured

New mounting method

- Flexible installation is available to suit different working environments.

Frame structure
- The M5 nut is inserted into a slot of the frame.

Side mounting
- Mounting screw

Rear mounting
- Mounting screw
* The customer must arrange the mounting screw and M5 nut.
Main Specifications

### Specifications by model

<table>
<thead>
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<th>Model</th>
<th>Power consumption (W)</th>
<th>Weight (g)</th>
<th>For external dimension diagrams</th>
</tr>
</thead>
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<tr>
<td>LT-100SW</td>
<td>15</td>
<td>500</td>
<td>1</td>
</tr>
<tr>
<td>LT-200SW</td>
<td>29</td>
<td>1000</td>
<td>2</td>
</tr>
<tr>
<td>LT-300SW</td>
<td>43</td>
<td>1500</td>
<td>3</td>
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<tr>
<td>LT-400SW</td>
<td>57</td>
<td>2000</td>
<td>4</td>
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<tr>
<td>LT-500SW</td>
<td>71</td>
<td>2500</td>
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<td>LT-600SW</td>
<td>85</td>
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<td>LT-700SW</td>
<td>99</td>
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<td>226</td>
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<td>240</td>
<td>8500</td>
<td>17</td>
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<tr>
<td>LT-1800SW</td>
<td>255</td>
<td>9000</td>
<td>18</td>
</tr>
</tbody>
</table>

### LT Series common specifications

- **Model**: LT- (100xn) SW
- **Input voltage**: DC 24V
- **LED color**: White
- **Correlated color temperature**: 10,000K
- **Connector**: Metal (7-pin and plug)
- **Polarity and signal**: 1, 2, 3: (+) 4, 5, 6: (-) 7: NC
- **Cooling system**: Natural air cooling
- **For external dimension diagrams**:
  - A: Overall length (mm)
  - B: Emitting surface (mm)

### Operating environment

- **Temperature**: 0 to 40°C
- **Relative humidity**: 20 to 85% (non-condensing)

### Storage environment

- **Temperature**: -20 to 60°C
- **Relative humidity**: 20 to 85% (non-condensing)

### Case material

- **Aluminum alloy**

### Spectral distribution

#### External dimension diagram (unit: mm)

**LT- (100 x n) SW**

(n = 1 to 18)

#### Dedicated cable

- **Length**: 2 m
  - **Model**: FCB-2-1.25SQ-ME7
- **Length**: 3 m
  - **Model**: FCB-3-1.25SQ-ME7
- **Length**: 5 m
  - **Model**: FCB-5-1.25SQ-ME7

#### External dimension diagram (unit: mm)

**FCB-n-1.25SQ-ME7**

(n=2,3,5,10)

#### Dedicated power supply

The PSB2-10024-EX(A) is used for emitting surface lengths between 100 and 700 mm.

The PSB2-30024-EX(A) is for emitting surface lengths between 800 and 1,800 mm.

* See our general catalog or website for the specifications and dimensions, etc., of the dedicated power supply.

<table>
<thead>
<tr>
<th>Model</th>
<th>xx (emitting surface length) (mm)</th>
<th>Power supply</th>
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</thead>
<tbody>
<tr>
<td>LT-xxx SW</td>
<td>100 to 700</td>
<td>PSB2-10024-EX (A)</td>
</tr>
<tr>
<td></td>
<td>800 to 1800</td>
<td>PSB2-30024-EX (A)</td>
</tr>
</tbody>
</table>

### Notes:

- Carefully read the product's instruction manual before use to ensure correct operation.
- Product specifications and design are subject to change without notice.
- Examples of workpiece imaging in this catalog are a guide that may be informative for choosing illuminations. Please check the functions of the equipment and requirements when choosing.