

# Flat Dome Light LFXV-50SW

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## Product Downloads

### General

Model Number:  
LFXV-50SW

Type of Illumination:  
LED Illuminator

Manufacturer:  
CCS

Geometry:  
Flat Dome Light

Illumination Mode:

Constant

## Physical & Mechanical Properties

93 x 93 x 10 **Dimensions (mm):**

190 **Weight (g):**

50 x 50 **Active Area (mm):**

## Optical Properties

White **Color:**

## Electrical

9.9 **Power Consumption (W):**

## Hardware & Interface Connectivity

24 **Input Voltage (V):**

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#73-491](#)  
Europe: [#73-491](#)  
Japan: [#89-513](#)  
Korea: [#33-773](#)  
China: [#73-491](#)

## Environmental & Durability Factors

5,500 **Color Temperature (K):**

## Regulatory Compliance

[View](#) **Certificate of Conformance:**

## Product Details

- Thin, Compact, and Lightweight Housing
- Available in Multiple LED Colors
- Wide Range of Sizes Including Square and Rectangular Shapes

CCS Flat Dome Lights are ideal for achieving illumination similar to Coaxial or Dome Lights in a lighter, more compact unit. While standard dome lights are good for creating a diffuse lighting environment that minimizes specular reflection, their mechanical size and imaging aperture through a small hole on top limit their use in compact applications. These flat dome lights provide the same diffuse illumination environments as a standard dome light but in a 10mm thick, flat housing with a large imaging area, greatly increasing the options for working distance, depth of focus, and field of view. CCS Flat Dome Lights can also be used at long working distances to recreate the illumination environment of a coaxial light, which is used to reduce shadowing and has minimal glare. This flexibility makes these flat dome lights suitable for a wide range of industrial and imaging applications, particularly when imaging textured, shiny, or uneven surfaces.

## Technical Information

**Imaging Examples** Introducing various examples using unique characteristics of the Flat Dome Lights

### Electronic Components Industry

**Imaging Characters on a Textured Metal Surface**

Workpiece: Capacitor

**Conventional product:** Ring Light (Red)  
The surface texture makes it difficult to read the characters clearly.

**New product:** LFX3-25RD (Red)  
Effects from the surface texture are suppressed so that the characters stand out clearly.

### Electronic Components Industry

**Imaging Characters on Button Batteries**

Workpiece: Button battery on a metal package

**Conventional product:** Dome Light (Red)  
The textured surface makes it impossible to read the printed characters.

**New product:** LFX3-100RD (Red)  
Effects from the textured surface are suppressed so that the characters stand out clearly.

### Packaging Industry

**Imaging Shrink Film of Containers**

Workpiece: Packaged plastic container

**Conventional product:** Ring Light (Blue)  
The shrink film is poorly imaged.

**New product:** LFX3-100BL (Blue)  
The shrink film is clearly imaged.