

# 4" x 4" 850nm Collimated Backlight

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Advanced Illumination Side-Fired Collimated LED Backlight

Stock **#73-853** NEW **1 In Stock**

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## SPECIFICATIONS

### General

**Model Number:**  
BX2-100100850ICC

**LED Lifetime (hours):**  
50,000

**Type of Illumination:**

LED Illuminator

**Note:**  
Optional Manual Intensity Adjustment [#86-887](#) and [#89-555](#) are Available

Advanced Illumination

**Manufacturer:**

Collimated Backlight

**Geometry:**

Constant

**Illumination Mode:**

## Physical & Mechanical Properties

157.5 L x 157.5 W x 19.1 T

**Dimensions (mm):**

4 x 4

**Active Area (inches):**

## Optical Properties

NIR

**Color:**

850.00

**Wavelength (nm):**

## Hardware & Interface Connectivity

**Power Supply:**  
Power Supply Required and Sold Separately.  
USA: [#66-855](#)  
Europe: [#66-855](#)  
Japan: [#89-513](#)  
Korea: [#33-773](#)  
China: [#66-855](#)

## Environmental & Durability Factors

0 - 35

**Operating Temperature (°C):**

## Regulatory Compliance

[Exempt](#)

**RoHS 2015:**

[View](#)

**Certificate of Conformance:**

[Contains SVHC\(s\)](#)

**Reach 247:**

## PRODUCT DETAILS

- Collimated Light Source for Precision Silhouetting Applications
- High Intensity and Low Heat Output
- Low Divergence Angles Compared to Non-Collimated Backlights

Advanced Illumination Edge-lit Collimated LED Backlights provide highly uniform, collimated illumination with low heat output. The low divergence angle of the light rays make them ideal for use with [telecentric imaging lenses](#). While the light rays exiting standard backlights have wide and diffuse angles, the light rays exiting these backlights are collimated at lower divergence angles for improved edge contrast in silhouetting applications such as web inspection and defect detection. While [Telecentric Illuminators](#) with highly collimated light rays are ideal high precision measurement and gauging applications, they can be large and cost restrictive. Collimated Backlights can be a great option for space-limited measurement applications.