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# 8", IR 940nm, Medium Intensity Linear Backlights

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Advanced Illumination Medium Intensity Linear Backlights

Stock **#18-644** CLEARANCE **1 In Stock**

⊖ 1 ⊕ **SS\$1,792<sup>00</sup>**

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Product Downloads

**General**

BL31308-940IC **Model Number:**

50000 **LED Lifetime (hours):**

LED Illuminator **Type of Illumination:**

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

Advanced Illumination **Manufacturer:**

Backlight **Geometry:**

Constant **Illumination Mode:**

## Physical & Mechanical Properties

216.4 x32.2 x21.7 **Dimensions (mm):**

263 **Weight (g):**

204.4 x25 **Active Area (mm):**

## Optical Properties

IR **Color:**

940 **Wavelength (nm):**

## Electrical

0.8A **Minimum Input Current:**

## Hardware & Interface Connectivity

Flying Leads **Connector:**

24V **Input Voltage (V):**

**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 - 50 **Operating Temperature (°C):**

IP50 **Environmental Rating:**

## Regulatory Compliance

[Exempt](#) **RoHS 2015:**

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

[Contains SVHC\(s\)](#) **Reach 233:**

## Product Details

- Intense, Diffuse Output up to 226,000 Lux
- Full Range of Wavelengths Available
- UltraSeal Washdown Backlights for Harsh Environments Also Available
- Optional Manual Intensity Adjustments ([#86-887](#) and [#89-555](#)) Recommended

Advanced Illumination Medium Intensity Linear Backlights provide intense, diffuse illumination up to 226,000 Lux. These backlights are available in a full range of wavelengths for seamless system integration. Advanced Illumination Medium Intensity Linear Backlights are ideal for applications such as line scan and object silhouetting. IP69K certified Advanced Illumination UltraSeal Washdown Backlights for harsh environment applications are available.

**Note:** Requires 24V power supply [#66-855](#). Manual Intensity Adjustment [#86-887](#) and [#89-555](#) are recommended and sold separately.

[3D-Printable Mount Files](#)



Bar or Line Light Configuration

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Designed for use with the [Articulating Arm Mounting Systems](#), these 3D-printed mounts allow easy positioning of lights in brightfield or darkfield setups. The design is based on mounting illumination to 1/4-20" breadboards or into 80/20 extrusion systems, but can be adapted based on user needs. Mounts are available for ring, bar, line, and inline spot lights.



**Application Note**

Illumination Mounts for Machine Vision Applications

[Read](#)



**Video**

Assembly of 3D Printed Mounts for Common Illumination Geometries

[Watch](#)