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## 50mm, IR 850nm, MicroBrite Brightfield Ring Light

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### Product Downloads

### General

RL208M-050850IC **Model Number:**

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

LED Illuminator **Type of Illumination:**

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

**Manufacturer:**

Advanced Illumination

Ring Light

Geometry:

Illumination Mode:

Constant

## Physical & Mechanical Properties

Height (mm):

19.09

Inner Diameter (mm):

50

Outer Diameter (mm):

95.34

Dimensions (mm):

50.00 x 95.34 x 19.09

Weight (g):

299

## Optical Properties

Color:

IR

Wavelength (nm):

850

## Electrical

Maximum Input Current:

0.12A

## Hardware & Interface Connectivity

Connector:

Flying Leads

Input Voltage (V):

24V

Power Supply:

Power Supply Required and Sold Separately:

USA: [#66-855](#)

Europe: [#66-855](#)

Japan: [#89-513](#)

Korea: Not Available

China: [#66-855](#)

## Threading & Mounting

Mounting Threads:

M4 x 4

## Environmental & Durability Factors

Operating Temperature (°C):

0 - 60

Environmental Rating:

IP50

## Regulatory Compliance

RoHS 2015:

[Exempt](#)

Certificate of Conformance:

[View](#)

Reach 233:

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

## Product Details

- High Intensity Output up to 41,000 Lux
- 2"-10" Working Distance (Size Dependent)
- Full Range of Wavelengths Available
- Optional Manual Intensity Adjustments ([#86-887](#) and [#89-555](#)) Recommended

Advanced Illumination MicroBrite Brightfield Ring Lights offer high intensity machine vision lights in a compact form factor. These ring lights produce an intense light output up to 41,000 Lux at a working distance of 180mm, are available in a full range of wavelengths, and are offered in two standard sizes. These ring lights provide object coverage from 2" to 6" depending on working distance. Advanced Illumination MicroBrite Brightfield Ring Lights are ideal for standard, around-the-lens applications requiring high-intensity illumination sources such as high-speed inspections, factory automation, and machine vision.

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

[3D-Printable Mount Files](#)



Ring Light Configuration

[Download Now](#)

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](#)

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[Assembly of 3D Printed Mounts for Common Illumination Geometries](#)

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