

[See all 23 Products in Family](#)

# 170mm Low Angle Ring Light Red

See More by [CCS](#)



CCS Low-Angle LED Ring Lights

Stock #21-792 **1 In Stock**

1  MRP ₹2,81,430

 Price inclusive of all taxes

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | ₹2,81,430 each                |
| Need More?     | <a href="#">Request Quote</a> |

## Product Downloads

### General

LDR2-170RD2-LA **Model Number:**

LED Illuminator **Type of Illumination:**

CCS **Manufacturer:**

Low-Angle Ring Light **Geometry:**

Constant **Illumination Mode:**

## Physical & Mechanical Properties

OD: 170 , ID: 134 , Height 22 **Dimensions (mm):**

350 **Weight (g):**

## Optical Properties

Red **Color:**

630 **Wavelength (nm):**

## Electrical

18 **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](#)

## Regulatory Compliance

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

[Contains SVHC\(s\)](#) **Reach 224:**

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

United States **Country of Origin:**

**Imported By:**  
Edmund Optics India Private Limited  
267, Greystone Building, Second Floor,  
6th Cross Rd, Binnamangala,  
Stage 1, Indiranagar, Bengaluru,  
Karnataka, India 560038  
Phone: +91- 80-6845 0000

## Product Details

- Low 30° LED Mounting Angle
- Designed for Constant Output Power for Prolonged Use
- Ideal for Darkfield Illumination

CCS Low-Angle LED Ring Lights feature a low 30° LED mounting angle for darkfield illumination applications. By mounting a flexible circuit board at a steep slope, these ring lights are able to effectively concentrate light at small working distances. These low-angle LED ring lights are designed to maintain constant output power over prolonged periods. CCS Low-Angle LED Ring Lights enable images that clearly emphasize characteristic features of an object and are ideal for inspection of engraving, damage, or stains on metal surfaces, edge detection, inspection for contaminants, and other manufacturing and industrial applications.

[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

[Read](#)



[Video](#)

Assembly of 3D Printed Mounts for Common Illumination Geometries

[Watch](#)

## Technical Information

### Imaging example : Text on tablets, exterior imaging



|                       |  |
|-----------------------|--|
| Description           | Text, visual inspection                  |
| Workpiece             | Tablet                                   |
| Conventional lighting | Interior lamp                            |
| New lighting          | LDR2-170RD2-LA                           |
| Result                | Emphasizes text and edge of the exterior |

Workpiece image



Tablet

Interior lamp



It is difficult to take an image that emphasizes the text or exterior.

LDR2-170RD2-LA



Possible to take an image that emphasizes the text or exterior.

➤ Imaging example : Imaging of engraved text on a metal block (stain finishing)



|                       |                                 |
|-----------------------|---------------------------------|
| Description           | Character recognition           |
| Workpiece             | Metal block                     |
| Conventional lighting | LED Dome Light                  |
| New lighting          | LDR2-132RD2-LA                  |
| Result                | Extracts only the engraved text |

Workpiece image



Metal block (stain finishing)

LED Dome Light



The whole thing is illuminated, making it difficult to emphasize only the characters.

LDR2-132RD2-LA



Reduces effects from the stain finishing, making it possible to emphasize the characters.